AN ASSYRIAN GRAMMAR.

AN

ASSYRIAN GRAMMAR,

FOR COMPARATIVE PURPOSES.

BY

A. H. SAYCE, M.A.,

FELLOW AND TUTOR OF QUEEN'S COLLEGE, OXFORD;
MEMBER OF THE GERMAN ORIENTAL SOCIETY,
AND OF THE SOCIETY OF BIBLICAL ARCHÆOLOGY.

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PREFACE.

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THE distinction between the material and formal parts
of a language is nowhere better illustrated than in the
case of one which is being gradually recovered from its
native records. A dictionary, in the true sense of the
word, is impossible: we can have only a vocabulary
which is being continually enlarged and corrected.
But although the power of speech in producing new
words is unlimited, the number of forms under which
these words find expression is practically closely de-
fined. A comparatively small number of written works
will afford sufficient material for the outlines of a
grammar: more extensive means of comparison serve
merely for correction and greater detail. Until, how-
ever, we know all the actual forms possessed by a
language at the various periods of its literary career,
we cannot be said to have more than a general ac-
quaintance even with its formative part; we can deal
only with its coarser features, and these would be
probably much modified by a more intimate knowledge
of the niceties and finer texture of the grammar. And
while this is of the highest importance for an accurate

interpretation of the language itself, it is of still higher
importance for the purposes of comparative philology.

Assyrian, it is now recognized, is of the greatest
value for Semitic philology. And the time has come
when it is possible to give a grammar of the language
which may bear some comparison with those of Hebrew
or Ethiopic. Of course our acquaintance with the new
study is constantly growing; but it is growing rather
upon the side of the lexicon than of the grammar. In
spite of the prejudice which naturally existed in the
minds of Semitic scholars against an upstart science
which threatened to dwarf the old objects of study, and
the results of which were at once startling and revo-
lutionary, while the decipherers were not always
distinguished by scholarship or caution, the method
of interpretation has at last won its way to general
acknowledgment, so that even Ewald and Renan
venture to use the statements of professed Assyrio-
logues. Indeed, rational scepticism is no longer possible
for any one who will take the trouble seriously to in-
vestigate the subject. The history of the decipherment
need not be told over again. No scholar now questions
the decipherment of the Persian inscriptions; and when
this had once been accomplished, the translation of the
Assyrian transcripts with their numerous proper names,
and with the aid of the immense stores of comparison
which the discoveries at Nineveh and elsewhere afforded,
could only be a matter of time. The language dis-

closed was found to be Semitic in grammar and vocabulary, and the sporadic phenomena which at first offended Semitic scholars have turned out either to be errors on the part of the decipherers, or to admit of sufficient explanation. The contents of the inscriptions, again, have thoroughly verified the method of interpretation. Not only are they consistent, but the names and facts are such as are required by historical criticism. The greatest stumbling-block in the way of the sceptics has proved to be one of the most striking verifications of the method. It was urged that the existence of polyphones—that is, characters with more than one value— was sufficient to condemn the whole theory. Polyphones, however, actually exist in Japanese for the same reason that they existed in Assyrian;[1] and we find that the Assyrians, in their use of polyphones, observed certain general laws, so that the transliteration of a word (unless it be a native proper name) is very rarely doubtful. Still these polyphones were felt by the Assyrians themselves to be the weak point in their system of writing, and Assur-bani-pal accordingly caused syllabaries to be drawn up in which the several

[1] See Léon de Rosny, " Archives Paléographiques," 2me Livraison, pp. 90–100. This is referred to by Mahaffy, " Prolegomena to Ancient History," p. 207, whose Fourth Essay on the History of Cuneiform Decipherment is very good, and suited to the popular understanding. The want of acquaintance with Assyrian on the part of the author, however, has led to a few mistakes, most of which I have pointed out in the *Academy*, December 15th, 1871, p. 564.

signs have their different phonetic values attached.
Now the various powers which the decipherers assigned
to the same character are found assigned to it in the
native syllabaries. Thus the character which by itself
denotes a lion is variously used as *ur, liq, tas ;* and a
syllabary gives us the same sign explained *u-ri, li+iq,*
and *ta-as.* The syllabaries also explain the origin
of these polyphones. The cuneiform characters were
primarily hieroglyphics (like the Chinese), and were
invented by a Turanian population of Babylonia.
These in their several dialects[1] assigned various names
to the object denoted by the same hieroglyphic, and
when the latter came to be used as a phonetic character,
the various names became so many phonetic sounds.
Every character, however, continued to be employed as
an ideograph as well as phonetically ; consequently
when the Semitic Assyrians adopted the written system
of their Turanian predecessors, they translated the
Accadian word into their own language, and in some
cases employed this (stripped of its grammatical in-
flexion) as a new phonetic value.

The tablets also give other evidence in favour of our
system of interpretation. Some of them contain lists of
Assyrian synonymes, and each synonyme is often a well-
known Semitic word. Thus *bi-is-ru* (בשר) is equated
with *se-ru* (שאר), and *al-pu* (אלף) with *su-u-ru* (שור).

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[1] Berosus ap. Syncelli Chron. p. 28 :—ἐν δὲ τῇ Βαβυλῶνι πολύ πλῆθος
ἀνθρώπων γενέσθαι ἀλλοεθνῶν κατοικησάντων τὴν Χαλδαίαν.

A last and conclusive corroboration of the method is afforded by bilingual inscriptions in Phœnician and Assyrian, on private contract-tablets and duck-weights. The *maneh* of the Phœnician is *ma-na* in Assyrian; the proper names in the two legends agree, as well as the chief facts of a "sale," and of the chattels sold, which are stated in both.[1]

The following pages will show to how great an extent I am indebted to Dr. Oppert's Grammar (second edition). He possesses the great merit of having first made Assyrian available to other Semitic students by formulating the general grammatical principles of the language. And this merit will outweigh all the disadvantages of arbitrary conclusions upon insufficient evidence, which have resulted not only in minor errors, but in three radical misconceptions—of an emphatic state, of the want of a Perfect (or Permansive) and

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[1] Thus *tadāni Arbʻ-il-khirat*, "the giving up of A." appears in the Phœnician legend as דנת ארבלחר; *pan Mannuci-Arbʻ-il*, "in the presence of M.," as למננארבל. Harkavy (*Révue Israélite*, 1870, p. 20) says :— "A présent, grâce au zèle indefatigable et à la persévérance du petit corps d'assyriologues, cette défiance et cette réserve diminuent et disparaissent peu à peu. Le vote solennel de l'Académie des inscriptions et belles-lettres, qui a décerné à notre célèbre correligionnaire M. Oppert le prix de la plus grande découverte dans le domaine de la philologie,— l'explication des légendes bilingues, araméennes et assyriennes, au Musée britannique, par Sir H. Rawlinson,—la trouvaille, a l'isthme de Suez, d'une inscription quadrilingue, malheureusement endommagée, se sont succédé coup sur coup, et ont contribué à attirer aux études cunéiformes la confiance de tous, sauf naturellement de ceux qui ferment les yeux à la lumière."

Passives, and in a confusion between the Present Kal
and the Pael—which make his book a dangerous one
for beginners. I have entered into the arena of con-
troversy wherever I have thought it needful; but this,
I hope, does not prevent me from bearing testimony to
Dr. Oppert's scholarship, research, and acuteness. His
grammar lacks completeness, it is true, as well as
accuracy; but this is due to the progressive nature of
Assyriology; and the same plea is needed for my own
pages. The most defective portion of his work is the
chapter on syntax, and this might have been remedied.

To Dr. Hincks my obligations are even greater. It
will be seen that in most of the points of dispute be-
tween him and Dr. Oppert, independent investigation
has made me follow the Irish scholar. The student of
Assyrian may well deplore his loss.

I have also made considerable use of Mr. Norris's
" Assyrian Dictionary " (the third volume of which is
about to appear),[1] and of Mr. G. Smith's " Annals of
Assur-bani-pal." Such books are greatly wanted to
lighten the labour and facilitate the research of other
students. I can only regret that Mr. Norris has not
yet got beyond his second volume, and that Mr. Smith's
promised " Annals of Sennacherib and Essarhaddon,"
upon the same plan as his former work, are still un-

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[1] The volume has been published since the above was written. It
brings the list of nouns as far as the end of N. The next volume will
begin the verbs.

published. It is with the same regret that I am obliged to finish my labours without having had the advantage of consulting the two Papers by Dr. Schrader upon the Assyrian language, which are expected by readers of the "Zeitschrift der Deutschen Morgenländischen Gesellschaft."

Before concluding, I would express my thanks to Mr. G. Smith, for his courtesy and kindness in enabling me to consult the original texts.

The cuneiform has been throughout transliterated into Roman characters, partly because the original type would be at once expensive and cumbrous, and partly to facilitate the comparative studies of Semitic scholars who are disinclined to commit to memory the complicated Assyrian syllabary. I have avoided confusing my text with references, so far as was possible; and have only broken the rule in points where dispute might arise.

A. H. SAYCE.

Queen's College, Oxford,
    May 11*th*, 1872.

ABBREVIATIONS USED.

W. A. I. = Cuneiform Inscriptions of Western Asia, Vols. I., II., III. (the fourth volume containing translations of Accadian hymns, is expected to be published before the end of the year).

S. H. A. = Smith's History of Assur-bani-pal, 1871.

[In the transcription of Æthiopic words, *shewa* is denoted by ĕ and *y*.]

CONTENTS.

THE VERB.

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N.B.—*The reader is requested to refer to the additional notes in the*
Appendix.

AN ASSYRIAN GRAMMAR.

INTRODUCTORY.

THE Assyrian language was spoken in the countries watered by the Tigris and Euphrates. It was bounded on the north by the Aryan populations of Armenia and Media, and on the east by the Turanian dialects of Elam. With the exception of one or two doubtful words preserved in classical writers, such as πανδοῦρα (Pollux, iv. 60), *Armalchar* (Plin. H. vi. 30), all that remains of it is to be found in the cuneiform inscriptions. These, though fragmentary, are copious, and are met with in Assyria (1), in Babylonia, and in Persia. The Semitic character of the language is unmistakable (2); indeed, the fulness, antiquity, and syllabic character of its vocabulary and grammar would claim for it the same position among the Semitic tongues that is held by Sanskrit in the Aryan family of speech (3). It has borrowed its syllabary from the primitive Turanian inhabitants of Chaldæa; and this, though not without grave inconveniences, has yet had the fortunate result of preserving the vocalic pronunciation of the Assyrians. Every character is syllabic, as in Æthiopic.

The Semitic dialects to which the Assyrian shows most affinity are the Hebrew and Phœnician. It agrees with these in its preservation of the sibilants (4), which are not changed as in

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Aramaic, in its fuller expression of the vowels (5), in its want
of an Emphatic State, in its construct plural, in the forms of
the personal pronouns, in the possession of a Niphal, and in
the general character of its vocabulary (6).   Next to Hebrew,
it has most affinities with Arabic.   Like the latter, it retains
the primitive case-endings of the nouns, though these in the
later inscriptions have begun to lose their strict value (7), and
agrees with it in the variously modified forms of the imper-
fect (8), in the use of the participle (9), in the conjuga-
tions (10), in the possession of a dual by the verb, in the
mimmation which replaces (as in Himyaritic) the Arabic
nunnation, in the simplicity of the vocalic system, and in
the formation of the precative (11).   It does not possess,
however, any broken plurals (12).   Its points of resemblance
to the Æthiopic are not so great as might have been ex-
pected from the similar position of the two languages—out-
posts, as it were, of the Semitic family, in constant contact
with non-Semitic populations, whom they had dispossessed of
their former country, and using a syllabic mode of writing
which ran from left to right.   Like the Æthiopic, the As-
syrian has split up its imperfect into two tenses (13), has chosen
the guttural form of the first personal pronoun in the Per-
mansive tense (14), has no article, has borrowed many foreign
roots (15), and has adopted several peculiar prepositions (16).

Of all the branches of the Semitic family, the Aramaic is
furthest removed from the Assyrian.   In the one the vowel-
system is very meagre, in the other it is correspondingly simple
and full (17).   They stand in much the same relation to one
another that the Sanskrit does to the Latin.   The only points
of likeness are the existence of a shaphel and an aphel (18),

the use of *ana* with the accusative as ־לְ in Aramaic (compare
2 Chron. xvii. 5; Ezr. viii. 16), and the formation of the
precative. Peculiar to the Assyrian is the change of a
sibilant into a liquid before a dental (19), as well as the
form of the third personal pronoun,—which is, however,
met with in South Arabic (20); the extended use of the
secondary conjugations with an inserted dental (21), the
division of the imperfect into an aorist, present, and future
(22), and the adverbial ending (23).

The Assyrians seem to have dispossessed the Turanian
population of their cities and country in the sixteenth century
B.C. (24), and the oldest inscriptions which we have written in
the language are two or three centuries later. The original
home of the Semitic people was apparently Arabia (25), whence
the northern branch moved into Palestine, and then into Meso-
potamia and Assyria. About B.C. 1270 (26), under the name
of כַּשְׂדִּים (= Assyrian *casidi*, "conquerors") (27), the Assy-
rian Semites took possession of Babylonia, subduing the Sumiri
(? שִׁנְעָר) or Cassi (Cush), and the Accadi or "highlanders,"
the inventors of the cuneiform system of writing, who
claimed kindred with the Turanian Elamites. A peaceful
Semitic population had already been settled in Chaldæa
for some centuries, in subordination to the dominant
Turanian race. One of the first Babylonian Semitic inscrip-
tions of which we know belongs to Khammurabi (? Semi-
ramis) (28), and records the construction of the Nahr-Malka,
the great canal of Babylon, whose two towers were called
after the names of the king's father and mother. The As-
syrian and Babylonian dialects differed in several respects.
Thus the Assyrian *p* becomes *b* in the Southern dialect (*e.g.*

Sardanapalus and Merodach-*Baladan*, *u-se-pi-sa* Assyrian, and *u-se-bi-s* Babylonian, *episu* Assyrian, and *ebisu* Babylonian); *s* becomes *sh* (compare בלשאצר and סרגון, like the sharper pronunciation of the northern Ephraimites, Judg. xii. 6); *k* is changed into *c* and *g* (as in *katu* "hand" Assyrian, *gatu* Babylonian, *sanaku* "chain" Assyrian, *sanagam* Babylonian); ע sometimes replaces א (י), e.g. *ri-e-su* for *ri-'i-su* "head," *er-si-tiv* for *ir-tsi-tiv* "earth," which is also an instance of the interchange of צ and ז; *i* represents the third person singular and plural aorist Kal of verbs פ׳ע in Babylonian, while in Assyrian the first and third persons are identical (beginning with *e*); *lu* is used before substantives as in vulgar Assyrian; and generally the Babylonian presents us with a much greater fulness of vowel-sounds, and has a preference for tne mimmation.

The Assyrian itself varies slightly in the oldest and the latest inscriptions (29). Thus *Nabiuv* became *Nabuv*, and Assur-bani-pal's inscriptions present us with such grammatical irregularities as *sal-la-ti* ("spoil") for *sal-la-at*, and *ic-su-du* for the dual *ic-su-da*. The doubling of letters is frequently omitted (30). Masculine verbs are even found with feminine nouns, e.g. *Istaru yu-sap-ri* "Istar disclosed." The language also in the mouths of the common people was to some extent corrupted, and these corruptions may occasionally be detected in private tablets, and even in the royal inscriptions. Dr. Oppert instances *kham-sa* by the side of *khan-sa* "five"; and we may add *e-rab-bi* for *i-rab-bi* or *i-rab-bi-u*, *ippalaccita* for *ippalcita*, *i-ta-tsu* for *it-ti-si*, *sa* used without any antecedent, as in *ina sa Gar-ga-mis* for *ina mana sa*, "according to the standard of Carchemish," *umma*, "thus" "that," inserted

as in Greek before quotations, and on Michaux's stone and elsewhere *irin*, "he gave," for *idin* (*iddin*). In Assur-banipal's inscriptions *umma* is generally preceded by *ciham*. The contract tablets also offer us examples of the change of *u* to *i*, as *iddini* for *iddinu* (31). In the Persian period the Assyrian experienced considerable changes. New words were introduced, such as *birid* "among," *uku* ("people," Accadian originally), *hagā, hagāta, haganet* "this," "these" (which, prefixed to the personal pronouns, and the demonstrative, passes into an article—compare too *aganet mati* "these lands"); *ul* is used with nouns and pronouns instead of *la*; and an Aryan order of words even is followed, as in *Kam-bu-zi-ya mi-tu-tu ra-man-ni-su mi-i-ti*, "Cambyses by the death of himself dead." The same cause seems to have produced such ungrammatical sentences as *istin in itehme madu'utu*, or even *istin itehme madūtu* and *madutu in itahime* (!), "one among many lawgivers" (32).

1. *Assur* was originally the name of the primitive capital of the country, now called Kileh-Shergat. It was of Turanian origin, and the name is explained in the bilingual tablets as compounded of *a* (=*mie*, מים) and *usar* (= *siddu*, שׂדה). Two or three brick-legends belonging to its early Turanian princes, called *pates'is*, are in our possession. They are placed in the nineteenth century B.C., by a chronological reference in the inscription of Tiglath-Pileser I.

2. Had scholars not been prejudiced, this might have been concluded from the few Assyrian words preserved in the Bible or classical writers, viz., *Rab-shakeh, Rab-saris,* רחבות עיר, *Belus, Zab* (=λύκος), *Zabate* ("caprea"), and Pliny's *Narraga* or (*N*)*ar-malcha* (="flumen regium") mentioned above. And see Is. xxxiii. 19.

3. The Assyrian would take this rank as furnishing us with some of the earliest examples of Semitic literature. The simplicity of its vowel-system evidences its antiquity, as well as its so-called case-terminations, which are identical with those of the aorist. The Semitic languages have marked their decay by modifications of the three primitive vowels, which alone

appear in Assyrian and classical Arabic. The large number of conjugations preserved in Assyrian, as well as the form of the third personal pronoun and the first person singular of the Permansive, are archaic. So also is the mimmation and the use of shaphel. Lastly, the vocabulary is extremely large, and it is unfortunate that we have to explain Assyrian from Hebrew and not Hebrew from Assyrian. Obscure points in Hebrew lexicography have already been cleared up (e.g. עַשְׁתֵּי עָשָׂר has been explained by Dr. Oppert as Assyrian *istin*, "one," masculine). Even in the Persian period we get *u-ta-h-ma* or *i-te-h-e-me*, "lawgiver," from טעם, formed by the prefix *u* or *i*, traces of which are to be found in such Hebrew proper names as יעקב, יצחק, or the Arabic يربوع .

4. The following table will show this clearly :—

ASSYRIAN.	HEBREW.	ARABIC.	ARAMAIC.	ÆTHIOPIC.
שׁ	שׁ	ث , س ,ش	ת , שׁ ,ס	s, ś
ס	ס	ش , س	ס	s, ś
צ	צ	ظ , ض ,ص	ץ , ט ,ע	ts
ז	ז	ن , ز	ז , ד	z

Thus Assyrian *Sal-si*=שָׁלשׁ, Arabic ثلث, Aramaic תלת, Æthiopic *s'alastu*; Assyrian *irtsituv*=ארץ, Aramaic ארע; Assyrian *tsalulu*=צלל, Arabic ظلل, Aramaic טלל, Æthiopic *tsalala*; Assyrian *zicaru*=זכר, Arabic ذكر, Aramaic דכר, Æthiopic *zacara*.

The Assyrian *s*, however, frequently replaces *s* both in Hebrew and in Assyrian itself, especially where Hebrew has שׁ; e.g. *siba'* and *siba'*, "seven," *sarru*=שַׂר, *si'amu*=שָׂהֵם.

5. E.g. *Catim*=קֶבֶל, Aramaic *k'bal*.

6. Thus we have *nadinu* (נתן) instead of Aramaic *y'hab*, *bdu* (בוֹא) instead of *'atah*, *radu* (ירד) for *n'khat*, etc. So כן, as in Hebrew,= "to establish:" it has not passed, as in Arabic, Æthiopic, and Phœnician, into the general idea of "existence." The inserted ר is absent, as in Hebrew; e.g. *cussu*=כֵּסֵא, in Phœnician כרם', Aramaic *corsai*, Syriac *curs'ya*, Arabic *curs'ya*.

Assyrian differs from Hebrew chiefly in its rare use of the perfect and *waw conversivum*, its want of an article (except perhaps in the Achæmenian period), its plural, its extended use of the secondary conjugations, its substitution of *pael* for *piel*, and its want of the inseparable preposi-

tions, and (except in the later inscriptions) of the accusative prefix. The feminine always ends in *t* (like classical Arabic, Æthiopic, and Phœnician) both in noun and verb. With Hebrew must be classed Phœnician and Moabite (as found in the inscriptions of Mesha). Phœnician agrees with Assyrian in the scanty use of an article and of *waw conversivum*, in the use of the participle for tenses, in the substitution of the relative שׁ for אֲשֶׁר (as in the northern dialect of Judges and Canticles), and in the older form of the feminine suffix ת for ה. In most cases, however, where Phœnician and Hebrew differ, Assyrian agrees with the latter ; e.g., *raglu* "foot," not פַּעַם, *dhabu* "good," not נָעַם, *sani* "years," not שָׁנוֹת, *nadinu*, not יָתֵן. In many instances the Assyrian employs words common in Phœnician, but poetical in Hebrew, e.g., *pilu*=פָּעַל (Hebrew usually עָשָׂה), *alpu*=אָלֶף (Hebrew usually שׁוֹר), *arkhu*=יָרַח (Hebrew usually חֹדֶשׁ).

It often happens that the Assyrian agrees only with the poetical (archaic) words and forms of the Hebrew, e.g., חָזָה (Assyrian *khazzu*), the plural in יןֽ, the sparing use of the article and the accusative prefix אֵת, and the lengthened form of the pronoun-suffixes מוֹֽ, etc., which preserve the final -*u* of the Assyrian (*sunu*).

7. The syllabaries carefully give the typical form in *u* or *um*, but we find in the inscriptions numberless instances of a wrong use, more especially of the oblique cases. Thus, Assur-bani-pal has *pu-lukh-tu* for *pu-lukh-ti*, *di-e-ni* for *di-e-nu*, *libba* for *libbu*; while in Babylonian inscriptions we even meet with such instances as *ana da-ai-nuv tsi-i-ri*, "to the supreme judge," for *ana da-ai-na tsi-i-ra*; and the astrological tablets have *khibi essu*, "recent lacuna."

8. These also are liable to be interchanged in the later inscriptions: e.g. in Assur-bani-pal we have indifferently *as-lu-lu* and *as-lu-la*, "I carried away;" *is-ta-nap-pa-ra* and *is-ta-nap-pa-ru*, "I wished to be sent forth;" though perhaps *a* stands here for *u-a* (*wa*), as in *aslula*, "They carried away."

9. More properly, verbal adjectives, as in Arabic, one denoting the agent (e.g., *mdicu*, "ruling;" *asibut*, "habitantes;" *dŭcu*, "slaying;" *limattu*, for *limantu*, "she who injures;" *limuttu*, for *limuntu*, "she who is injured;" *dīcu*, "slain"). The participles of the conjugations (Kal excepted) are formed by the prefix *mu*.

10. The Assyrian possessed a passive for every conjugation (except Kal, which used Niphal instead), formed as in Arabic; e.g., in the Pael, *sar-ra-ap*, "to burn," *sur-ru-up*, "to be burnt."

Every conjugation, again, had a secondary one (intensive), formed by

the insertion of *t*, as in the Arabic eighth conjugation. So also the nasal Assyrian conjugation (e.g. *istanappar*) may be compared with the Arabic fourteenth and fifteenth. In Moabite we find an *ifta'ala* (for Niphal) הִלָּתְחֵם, infinitive בְּהִלָּתְחֵמֹה, imperfect וְאֶלְתָּחֵם, imperative הִלָּתְחֵם.

11. The precative formed by the prefix *l* is compared by Dr. Oppert with the Arabic precative prefix لِ , the לְ of the Talmud, and with the Aramaic forms לֶהֱוֵין, לֶהֱוָא. But it is better to regard these last as equivalent to the usual preformative of the imperfect י, with the intensive particle *lu* prefixed. This has been united with the verb, causing the elision of the person-determinative, and in Syriac has been corrupted into *n*.

12. Broken plurals are a later formation in the Semitic languages, and were originally merely singular nouns of multitude. In Himyaritic the Arabic plural *actab* occurs by the side of the ordinary plural (e.g., *sheb*, "tribe;" plural *asháb*). Broken plurals, common in Æthiopic, have become the rule in Arabic. As in Hebrew and Aramaic, there are no certain traces of them in Assyrian. Dr. Hincks believed he had detected two or three: *balu*, plural of *ablu*, "son" (but this word means "power"), *rid*, plural of *ardu*, "servant" (but *rid* is singular referring to Assur-izir-pal, explained as equivalent to *mil-cu* (מֶלֶךְ) and *admu* (אָדָם) ii., 30.3; like *li-du* by the side of *a-lit-tuv*, ii. 36.2.), *ri-i-mu*, plural of *ar-mi*, "bull" (but this explanation of *ar-mi* is doubtful), and *ni-si* from *anis* (but the latter word is not found). Assyrian differs from the Arabic chiefly in its consonantal system (besides agreeing with Hebrew in the sibilants, it does not possess the modern Arabic modifications ض , ذ , غ) ; in its want of an article (אלקוש is *alu Kus* or *Kis*, "the town of Kis" in Babylonia); in its want of auxiliary tenses; and in its vocabulary (e.g., *mā* in Arabic, as in Syriac, is negative, in Assyrian only interrogative).

13. This will be proved further on. The Assyrian present *igabbir* or *igabir* answers exactly to what Ludolf calls the present in Æthiopic *yĕgabĕr*, and the aorist *igbur* (or *igbar*) to his subjunctive *yĕgbar*.

14. Assyrian *gabracu* or *gabrac* stands side by side with the Æthiopic *gabarcu*. So in Mahri (*zegidek*, "I strike") and Amharic (*zagadhu*). In the second person, however, the Assyrian has the *t* of the other dialects (*gabirta, gabirti*), herein departing from the Æthiopic and Mahri, as well as the Samaritan. The ך seems more original than ת when we compare the substantive suffixes throughout the Semitic dialects, and the absolute form of the first personal pronoun (Assyrian *anacu*, where *ana* is explained by the root הנא). For the change of ת and ך, conf. שָׁתָה and

שָׁקָה. It appears to belong to the oldest period of the languages. The inhabitants of Raïma near Zebîd still say *kunk* for *kunt*.[1] Assyrian agrees also with Æthiopic and Himyaritic in one of the forms for the plural—*ânu* (*ân*) ; as well as in forming many adverbs by means of the accusative affix *a* (as also Arabic), e.g., *bazza*, "as rubbish," *be-'e-la*, "much." So, too, we find such forms as *manzazu*, "fixed," like Æthiopic *maf'rey*, "fruitful," where Arabic has *u*, and Hebrew and Aramaic *shewa*. Himyaritic, again, possesses the mimmation, as in the genitive *Marthadim* ; and Amharic and Hararic have a nunnated accusative, *ĕn*, *ĭn*. The Æthiopic *shĕmālem* is an old mimmated accusative.

15. Few, if any, are derived from an Aryan source. This is the more strange, as Aryan nations (Medes, Armenians, Tibareni, Comagenians) surrounded them on the north, the people of Van even adopting their mode of writing. Perhaps *urdhu*, given in a tablet as a synonyme of *tilla*, "high," is the Zend *eredhwa*, etc., but I have never met with the word in inscriptions. *Alicani*-wood, again, one of the trees introduced into Assyria by Tiglath-Pileser I., is possibly אַלְגּוּמִים, Sanskrit *Valgu* (*ka*), "sandal." On the other hand, a large number of Accadian vocables were borrowed by the Assyrians, after being Semitized. Thus *muq* becomes *muk-ku*, *gal* or *gula gal-lu*, *naga nangu'u*. Though words of more than one syllable have been thus taken, the roots are more commonly monosyllabic ; and the proximity of the remote ancestors of the Semitic family to the Turanians of Chaldæa seems to make it probable that a considerable proportion of the monosyllabic radicals common to the Semitic tongues were originally foreign. A curious example of this may be found in *khirat*, *khirtu*, "woman," a Semitic feminine formation from the Accadian *kharra*, "man" (? חֻר, Syriac *khira*). Some roots, lost in the other dialects, are found in Æthiopic and Assyrian alone: e.g. *basu*, "to exist," has been well compared by Dr. Oppert with Æthiopic *bisi*, "man." There are no traces of Egyptian influence unless it be *pirkhu* given as a synonyme of "king," on a tablet (II. 30., 3). More probably, however, this merely means "a young man" (פרח). *Ammat* (אַמּוֹת), "cubits," is Semitic. *Mana* is of Accadian origin, as is shown by the famous law-tablet.

16. *Ana*, *ina*, *assu*, are not less Semitic than *diba* and *sôba*. The other Assyrian prepositions are common to the surrounding dialects. *Ana* and *ina* are merely accusative cases used adverbially : *ana* I would derive from אנה, أني, "to be suitable," and *assu* from the common root *asasu*,

[1] V. Maltzan (Zeitschrift d. D. M. G. 1871, p. 197).

אשש, "establish." The inseparable prepositions of Hebrew and Arabic are merely contracted forms of roots which bore much the same meaning, ב of בית, ל of לוה (just as we have מ for מן and כ for כה). In Assyrian also *cima* is contracted into *ci* (e.g., *ci pi*, "according to the tongue"), and *limetu* (לוה) is also found as *li* (ל). So, too, before a consonant we sometimes have *an* for *ana*, and *it* for *itti*. Another point of resemblance between Assyrian and Æthiopic is the violent change of sounds usual in both. Thus in Assyrian a sibilant before a dental regularly changes into *l*. So again Æthiopic, Himyaritic, and Mahri, like Assyrian, have no article. *Sunu*, "illi," may be compared with Himyaritic and Arabic *humu*, Æthiopic *wetomu*, *m* becoming *n*, as in the plural of nouns. *Su, sa, si*, must be ranged with the Mahri *sé*, "she," with plural *sên*, and Himyaritic *s*.

17. As already remarked, the consonantal character of Assyrian agrees with Hebrew, not with Aramaic; compare תרין and *sanē*. Mendaite, perhaps, most exhibits the degenerating tendency of Aramaic. In this dialect the three quiescent letters are vowels; and the gutturals are all pronounced as א, as is sometimes the case in Galilee, in the Talmud, in Nabathean, and on the Jewish bowls found at Babylon by Layard. These, it is important to notice, present a complete contrast to the Assyrian, which goes so far as to permit the doubling of ה as well as of ר. Assyrian ה, however, was frequently dropped in writing, and the language resolves the final ה into *u*, as Aramaic does into א. The guttural sound of ע, again, was not known, it being always a vowel (thus, עזה is written *Khazitu*). *Imiru*, however, is not חמר, but Phœnician אמר ("lamb"). The numerous contractions and agglutinations of Mendaite are altogether alien to Assyrian. Assyrian, so far as I know, has but one example of the substitution of *n* for the reduplication of a letter, usual in Aramaic and Mendaite. This is the word *pulunge*, "regions," once used by Sargon; which is, moreover, an Aramaic use of the usual *palgu*, "a canal" (but found also in Phœnician).

This unlikeness of Assyrian to the peculiarities of Aramaic marks it off from the dialects of Yemen (which have an emphatic termination *o*, the Aramaic postfixed vowel, and such words as *bar*, "son"), or the Siniatic inscriptions (which have *bar* and *di* for the relative pronoun).

The vocabulary, again, is strikingly non-Aramaic (note 6). Thus we find לקח instead of קבל, and מלך rather than שלט, *ab-lu* (יבל) and *binu* instead of בר. So *admu*, "man," is found only in Hebrew, Phœnician, and Himyaritic.

Other points of contrast between Assyrian and Aramaic will be the want

of the emphatic termination (the postfixed article), the formation of the passive by vowel-mutation, the want of compound tenses (in which Arabic agrees with Aramaic), the use of *isu* (שׁי) instead of אוּת, and the rarity of substantives expressing abstract ideas by the help of final terminations.

18. Traces of *shaphel* are to be found in Hebrew (e.g., שַׁלְהֶבֶת). But the conjugation is presupposed by Arabic *istactala* and Æthiopic *ĕstagabbara*. *Istaphel* is possessed by the Mahri. *Aphel* from *shaphel* (*hiphil*), Arabic and Æthiopic *actala*, is found in Assyrian only in verbs עי.

Other points of resemblance will be the want of the article, the usual loss of emphatic א in the *status constructus* like the loss of the case-endings in Assyrian, and the circumscription of the genitive by the relative pronoun (as in Æthiopic *za*), which is, however, *sa* (not Aramaic דִי or Himyaritic ד). So, in both languages, the superlative is formed by the insertion of the relative between the positive and the genitive plural.

Before the decipherment of the cuneiform inscriptions, philology had shown that the so-called Chaldee was really the language of Northern Syria, and did not encroach upon Palestine and Chaldæa until after the overthrow of the Babylonian empire. Isaiah xxxvi. 11 merely shows, what we know to be the case from private contract tablets extending from the reign of Tiglath-Pileser II. to that of Sennacherib, that after the fall of Tyre Aramaic, together with its alphabet, had become the language of commerce and diplomacy (like French in modern Europe). It was not yet understood by the lower orders, but was regarded as the language of politics. Ezra iv. 7 bears out this fact: with the Persian supremacy, the native dialects of east and west began to pass away before the influence of the Aramaic. Daniel ii. 4 only exhibits the unhistorical character and late date of the book, which cannot be brought into harmony with the inscriptions. Laban (Genesis xxxi. 47) was a Syrian of Mesopotamia (xxviii. 5). *Sahadutha*,[1] neither in form nor root, is found in Assyrian. *Igaru* (יגר), however, is common, answering to the Accadian *izi* or *is*.

19. This is the regular change (e.g., *mikhil-tu* for *mikhits-tu*, *iltanappar* for *istanappar*, *ulziz* for *usziz*), but it is often disregarded, especially in the later inscriptions. The comparison of Χαλδαῖοι with כשׂדים has been brought forward as an instance of this phonetic change; but though a sibilant becomes a labial, the converse never takes place; and the *Caldai* are first met with in inscriptions of the eighth century, as a small Elamite tribe on the lower Euphrates. They gradually advanced north-

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[1] With the suffixed article of the Aramaic emphatic state, the Assyrian would be *Sahaduthi*. Contrast רב־שׁקה = *Rab(u)-sakku*.

ward; and under Merodach-Baladan, son of Yagina, got possession of Babylon. The sibilant must have been changed into *r* before it could have become *l*.

20. This alone would claim for Assyrian a standard place among the Semitic tongues, as retaining archaic forms. The ה of the other dialects has long ago been shown to have been originally שׁ, just as Hiphil presupposes Shaphel. It is curious that in the sub-Semitic dialects the third personal pronoun has a sibilant. Thus Harar *zo* or *so*, "he," *zinyo*, "they;" Barber (suffixed) *es*, *as* (singular), and *sen* or *asen* (plural masculine), *sent*, *asent* (plural feminine). Haussa *shi*, "he," *su*, "they," *sa*, "him." Mahri again gives us *sé*, "illa," *sên*, "illæ," and the suffixes *-es*, *-senn*.

21. The dental was originally inserted at the beginning, as in Assyrian verbs י'ע (e.g. *it-bu-ni*, "they went,") or ע'פ (*it-ebus*, "he made"). In the eighth and tenth conjugations of the Arabic the dental has been inserted into the form. So too in the Æthiopic *estagabbara*, Mahri *shakhber* (for *stakhber*), and Aramaic *eshtaphal*. Compare also Hebrew forms like הִסְתַּכֵּל.

The uniformity of the Assyrian in using this conjugation with *t* by the side of every other conjugation, seems rather to be the result of a secondary striving after uniformity than the relic of original usage, when it is considered that the dental primitively stood before the root and had a reflexive meaning.

22. I cannot help believing that this was influenced by the neighbourhood of their Turanian neighbours. The Accadian had an aorist and a present, and with the machinery already possessed by the Assyrian verb, it was not difficult to set apart one form for the aorist signification, and another for the present. The same phenomenon re-appears in Æthiopic, which was similarly situated in close neighbourhood to a non-Semitic population. A grammatical form was not borrowed by the Assyrian (comparative philology would protest against such an assumption); but the existing forms were specialized to suit the requirements of a bilingual people. The elaboration of a future was easy : it is merely the older and fuller form of the present, just as future time is an extension of present time by dwelling longer upon it. The fuller form of the aorist had a tendency to express a similarly extended action : it is used rather where the Aryan languages would employ a perfect or a pluperfect, just as, conversely, in Arabic and Hebrew, the apocopated form denotes energetic, immediate action. The Assyrian inscriptions, however, will not allow us to draw the same distinction of meaning between the shorter and longer forms of the past tense that must be drawn between the shorter and longer forms of the present.

The difference was only felt in an indistinct way; the language never definitely and consciously expressed it.

23. The adverbial ending in -*is* has been admirably explained by Dr. Oppert as a contraction of the third personal suffix-pronoun attached to the oblique case of the noun. Thus *sallatis*, "as a spoil," will be for *sallati-su*. The pronoun is often found in a contracted form; e.g. *yusat-limus*, "he conferred on him," *balus*, "his power."

24. The names of the chief cities of Assyria are Accadian, and are generally written ideographically with the Accadian *ci* ("land") affixed. Shalmaneser seems to mention Bilu-sumili-capi as the founder of the Semitic monarchy. Sennacherib brought back from Babylon (in B.C. 700) a seal which belonged to a former Assyrian king, Sallimmanu-ussuru (whose name and legend are Semitic), 600 years previously. Before that event alliances had been made with (non-Semitic) kings of Babylonia by Assyrian kings who bear Semitic names (Assur-yupallat, Buzur-Assur).[1] The two *patesis* of Assur, however, who founded the great temple there, and who are stated by Tiglath-Pileser I. (1120) to have built the temple 701 years before his time, have Turanian names and inscriptions. The first known inscription of the Semitic Assyrians is the seal above referred to; Shalmaneser's predecessors are only known through a tablet which gives a synchronous history of Assyria and Chaldæa.

25. The Semitic traditions all point to Arabia as the original home of the race. It is the only part of the world which has remained exclusively Semite. The racial characteristics—intensity of faith, ferocity, exclusiveness, imagination—can best be explained by a desert origin. Palestine would seem to have been originally occupied by non-Semitic tribes, the Zamzummim, etc., the giants of old days. The Phœnicians were said to have come from the Persian Gulf (Strab. i. 2, 35, xvi. 3, 4; 4, 27; Justin, xviii. 3, 2; Plin. N. H. iv. 36; Hdt. i. 1, vii. 89; Schol. to Hom. Od. iv. 84). The myth of Kepheus and the Æthiopians at Joppa might point in the same direction. Egypt would seem to have been colonized by a ruling Semitic caste at an early period; in this way we can best explain the Semitic colouring of the grammar, and the strange mixture of an elevated Semitic religion with Nigritian beast-worship; and the Semites could only have crossed from Arabia. Apparently, also, Palestine was not Semi-

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[1] In this way, perhaps, we may account for Accadian kings with Semitic names and inscriptions (Naram-Sin, the destroyer of Carrak, for instance) in the sixteenth century B.C. In the case of Naram-Sin, however, it must be borne in mind that there seems to have been another contemporary monarch in Babylonia, Rim-Sin (unless the two names are identical).

tized in the fourth millennium B.C. No affinity can be shown to exist between the Semitic and Aryan families of the speech. They are radically different in genius and in grammar. One is based upon monosyllabic roots: the other presupposes triliterals. All attempts to compare single roots in the two families are unscientific; we have no Grimm's law, neither do we know the original meaning and form in many cases: and coincidences often happen in the most diverse languages (e.g. Mandschu *sengui* and Latin *sanguis*). Words like קֶרֶן compared with κέρας are borrowed; and onomatopœia has played a great part in the origin of all languages, producing similar sounds for the same idea.

26. This date comes from Berosus: here begins his Assyrian (Semitic) dynasty, headed by Semiramis, for 526 years (cf. Hdt. i. 95). The date is confirmed by the scanty hints of the inscriptions: all the older Chaldæan kings have Turanian names and legends; Semitic begins with Merodach-iddin-akhi, the contemporary of Tiglath-Pileser I. (B.C. 1110). The mutilated records of the cylinder of Nabonidus point in the same direction.

27. *Casadu* is a common Assyrian word ("to possess"); *casidu* will be the nomen agentis. If "Ur of the Casdim" is to be identified with the Chaldæan Huru,[1] it will be the Semitic name attached to the old Accadian "moon-city" (however pronounced). The Semites changed the names of the Babylonian cities in many cases: thus *Ca-dimirra*, "the gate of God," became *Bab-ilu*. Chesed was brother of Huz and Buz and uncle of Aram (Gen. xxii. 21), and Arphaxad was son of Shem.

28. This Khammurabi was the leader of a dynasty which was not Accadian, but Elamite, though speaking a language allied to Accadian. It would seem to be the *Arabian* dynasty of Berosus. Probably 'Αράβιοι is a corruption of the final part of Khammurabi (? or for 'Αυράβιοι). The Nahr-Malk was ascribed to Semiramis. S'ammuramat was the name of an Assyrian queen, whose name, I think, was confounded by Greek writers with Khammurabi.

29. The plural of *yumu*, "day," is made feminine (W.A.I. iii. 44), *yumāti* instead of *yumi*, and the curious phrase *ana yumati*, "for ever," used. So, again, we must notice the use of *im* (אִם, e.g. *im matima*, "if any one"). Assur-bani-pal's inscriptions give us the first examples of

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[1] *Huru* or *'uru* simply meant "the city," and I have found the name used for the whole of Babylonia. *'Uru*, I believe, was borrowed by the nomad Semites under the form of עִיר. Cities were a product of Accadian civilization; and the Assyrians retained in their usual term for "a city" *alu* (= אֹהֶל) a remembrance of their original tent-life.

אֶת־ with the accusative pronouns; e.g., *attu-a* and *attu-cunu* (S. H. A., 190, 23). We also get *anacu* used with a preposition (*assu*) in *assu anacu*, "of myself" (S. H. A., 190, 24). Assur-bani-pal, again (S.H.A. 187 *k*), has the strange form *ikhallici* for *ikhallic* after *pani*, where the final vowel seems to have a conditional force. So the astrological tablets have *ikhkhar, ikhkhiram*, with initial *m* suppressed from *makharu.*

30. Not only is this common in the verbs (which always admitted the omission more or less), but we even find *yu-tag-gil-a-ni* for *yu-tag-gil-an-ni*, "he confided to me;" as well as the converse (e.g. *i-sac-can-nu* for *isaccanu*, "they place").

31. So, again, *ma-na-e*, as plural of *mana*, and *ta-a-din* (or *ta-din*) for *taddin*. Similarly we find the ungrammatical form *abbattiv-va* (S.H.A. 189, 13), instead of *abattiv.*

32. Besides the use of a quasi-article, אֵת with the accusative became common, especially in the case of the first personal pronoun, e.g., *at-tu-a*, "me" (אֹתִי). The change of ו into י, which is already effected in Hebrew (except in a few archaisms like וְלָד , Gen. xiv.), has also begun in Achæmenian Assyrian (e.g. *itahma* by the side of *utahma*).

In spite of its preservation of many archaic forms, Assyrian has entered upon a stage of corruption and degeneracy. The attempt at system displayed in its secondary conjugations is perhaps an instance. The dual has for the most part perished; it is only found in a few nouns (as in Hebrew) which express duality; and it is rarely met with in the verb.[1] The apocopated aorist has become the most usual form. Niphal has acquired a passive signification. The cases of the noun which are accurately distinguished in the earliest inscriptions tend to be more and more improperly used until in the Persian period even -*u* has ceased to be the mark of the nominative.[2] The same

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[1] So it has disappeared from the verb in modern Arabic, and was wanting in Æthiopic.

[2] Traces of the case-terminations are to be found in Hebrew (וֹ Genesis i. 24, Numbers xxiv. 3, 15, Psalms cxiv. 8 ; י in construct, e.g. Genesis xlix. 11, Isaiah i. 21 ; הֹ local). So, too, in proper names, *Methu-selah, Methu-sha-el* (where the Assyrian sign of the genitive appears), *Penu-el, Khammuel* (1 Chronicles iv. 26), etc. In the Sinaitic inscriptions the

has been the fate of Arabic; in most dialects of modern Arabic
they have even disappeared altogether.   The Assyrian third
plural of the verb-tenses has lost its final terminations *na* and
nu, which Hebrew has in some rare cases retained: probably
this was in great measure caused by the addition of *ni*,
the characteristic of the subjunctive. Both *nu* and *na* have
been weakened to *ni* in the perfect and future.   The
plural of nouns has degenerated into *an*, and even *i* or *e* for
masculine, and *at* or *et* for feminine. Hence, in many instances,
the plural and the second case of the singular have exactly
the same form. Verbs ע״ן undergo contraction, as in the
allied dialects (though the nomen agentis takes the same
form as in Arabic and Aramaic, e.g. *da-i-is* or *da-is*, "tramp-
ling on," instead of קָם or קוּם). Verbs ע״ע are regular,
except that a preceding *u* assimilates *e*.

Dr. Hincks believed that in an early stage the Assyrian
made no distinction between the genders of the personal
pronouns.   A bilingual tablet of Accadian laws reads *atta* for
atti, and *su* for *sa*, besides *izir* for *tazir* and *igtabi* for *tagtabi*;

nominative in proper names and titles only ends in *u*, and the genitive takes
i if the nomen regens and the nomen rectum are connected so as to form
a compound. *Gashmu* in Nehemiah (vi. 6), elsewhere *Geshem* (ii. 19), is
another instance. In the old Egyptian monuments names of places in
Palestine, which end in a consonant in the Old Testament, have *u* final;
thus נגבו =*Negeb*, בעלו =*Baal*. So in Phœnician *Hasdrubal*, etc., while
Samaritan shows *-u* and *-i* in certain words before suffixes (especially
כן); similarly Aramaic.   The Abd-Zohar coins (Levy, Z. D. M. G.
xv.) have י (e.g. in מוזרי) before זו, and the proper names, as in the
inscriptions of Palmyra, the Hauran, and the Nabathean kings, termi-
nate in ו. In Æthiopic the sign of the accusative *a* has been preserved
(also the termination of the *status constructus*).   According to Pal-
grave, the three terminations are still to be heard in central Arabia;
further south and east *a* stands for *i*, and nearer the coast all three have
entirely disappeared. Nöldeke disputes, to a certain extent, the existence
of the case-endings in Hebrew, and affirms that they are peculiar to Arabic.
Assyrian, however, opposes this conclusion.

and he compared the (supposed) archaic use of הוא and נער
as of common gender in the Pentateuch. But the tablet
states that it was written in the reign of Assur-bani-pal, and
it is a mere assumption that it is a transcript of an older trans-
lation. We do not find any disregard of gender in the in-
scriptions of Tiglath-Pileser I. Moreover, it is very possible
that the translator was an Accadian, and but imperfectly
acquainted with Assyrian. This is rendered almost certain
by the ungrammatical use of the verbs, which follow the
genderless Turanian idiom. The same looseness of grammar
characterizes a letter to Assur-bani-pal from the Elamite king
Umman-aldaśi (S. H. A., p. 252); and in one place we even
have *su* for the feminine (*mahaśśu* for *mahad-sa*, S. H. A.,
291, *m*).

The introduction of *attu* to form the accusative shows that
already in the time of Assur-bani-pal the case-endings had
begun to lose their meaning, and we are not surprised, there-
fore, to find the different terminations confounded one with
the other.

LITERATURE OF THE ASSYRIAN LANGUAGE.

The first conscious attempts at the formation of a grammar
—older probably than the earliest of the Hindu grammarians
—seem to have been made by the Semitic Assyrians. It was
found necessary to explain the Accadian language, the
original possessor of the cuneiform system of writing, in which
were contained, stored up in the libraries of Huru and Sen-
kereh, which Sargina had founded in the sixteenth century
B.C., all the treasures of borrowed Assyrian science and
religion. By the command, therefore, of Essar-haddon and

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Assur-bani-pal, syllabaries, grammars, dictionaries, and trans-
lations were drawn up.   The last king states that Nebo and
Tasmitu had inspired him to attempt the re-editing of the
"royal tablets," which no previous king had attempted, and
at the same time to explain and chronicle all the difficulties,
"as many as existed," "for the inspection of his people."
This implies that there was a considerable amount of culture
in the country at the time.   The nouns are always given in
the nominative, generally with the mimmation added, which
was therefore considered the typical form of the word.   The
third persons singular and plural of the aorist and present are
the only parts of the verb which we find ; it would seem that
they took the place of the nominative of the nouns; from
them the other persons could at once be derived.   The most
important fact which we have to notice is the full recognition
of triliteralism.   No radix consists of less than three letters,
and the rule is accurately observed in the defective verbs :
thus we have *da-'a-cu* (דוך), *ba-'a-bu* (בב), *si-'i-mu, pu-'u-ru,
ma-lu-'u* (מלא), *ka-bu-'u* (קבה)   Just as Sanskrit grammar
begins with the recognition of monosyllabic roots, Semitic gram-
mar begins with the recognition of a triliteral basis.   Assyrian
passed away before the encroaching influence of Aramæan, but
as late as the reign of Antiochus we have the cuneiform
characters (and apparently the language also) still used.
Since the decipherment of the inscriptions the following works
upon the subject have appeared :—

E. Botta, "Mémoire sur l'écriture cunéiforme Assyrienne"
(in Journ. Asiat.), 1847.   De Saulcy, "Recherches sur l'écri-
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PHONOLOGY.

The syllabary, as we have seen, was of non-Semitic origin, and primitively hieroglyphic. Its inventors spoke a variety of Turanian idioms, and inhabited the lowlands of Chaldæa. Every character was an ideograph, denoting some object or notion, sometimes more than one, as in Egyptian and Chinese. Different sounds, consequently, were attached to the same character, either because the object or idea admitted of different names, or because the various tribes of Chaldæa did not always agree in their vocabulary. When these characters came to be used phonetically, polyphony was the necessary result. The Assyrians adopted the system of writing, along with the science and mythology, of their predecessors. When space was an object, the characters were used ideographically, and this was generally pointed out by the addition of the (Semitic) grammatical termination. Thus ideographs came to take the place of the Hebrew *literæ dilatabiles*. Ordinarily, however, the words were spelled out phonetically : in this case, the sounds attached to the characters by the Accadians, which had ceased

to have any meaning for people who spoke another language, were employed as phonetic values. As these sounds (words once, but now replaced by Semitic roots if the characters were used ideographically) were manifold, almost every character had at least more than one power attached to it. This would seem to introduce an element of confusion into the orthography; but such is not the case. The different powers were used in accordance with rule—the Assyrian writing was to be read, not puzzled out—and it is but seldom that the transliteration is doubtful. Homophones are rare. Owing to the hieroglyphic origin of the writing, the number of characters is very large, almost every possible combination of two or three letters (one being a vowel) being found.[1] Many are of rare occurrence, some are only to be met with in the syllabaries. Were these perfect, this part of the subject would be complete. A syllabary, generally, sets the character to be explained in the second of three parallel columns; the first column representing the Accadian word (a mere phonetic sound in Assyrian), and the third the Assyrian root, which translated the Accadian of the first column and was the pronunciation when the character was employed as an ideograph. Thus we have a character, whose usual value is *is*, explained *i-si* in the first column, *sa-du-'u* ("mountain") in the third: then in the next line the same character with *ś a-khar* in the first column, *ip-ru* ("dust") in the third. Again, a character, whose ordinary power is *mi*, is given thrice following as *mi-e* in the first column, successively translated *ku-lu* ("assembly"), *ka-'a-lu* ("assemble") and *tam-tsu* ("weight") in the third;

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[1] Mr. G. Smith gives 389 in his "Syllabary," about 200 being compounds, but he has not given all the characters that are found.

then the same sign with *i-si-ip* in the first column and *ra-am-cu* ("herd") in the third.   It will be seen that when a closed syllable of two consonants is not used, two characters which respectively end and begin with the same vowel take its place, the two vowels coalescing in a long syllable.   For the syllabary the reader is referred to Ménant's "Grammaire Assyrienne," pp. 11—36, or his "Syllabaire Assyrienne,"[1] or to Norris's "Assyrian Dictionary," vol. i. (beginning), with supplement in vol. ii.

My transcription of the Hebrew alphabet is as follows:—
א = '*a*, ב = *b*, ג = *g*, ד = *d*, ה = *h*, ו = '*u*, ז = *z*, ח = *kh*, ט = *dh*, י = *i*, כ = *c*, ל = *l*, מ = *m*, נ = *n*, ס = *ś*, ע = *e*, פ = *p*, צ = *ts*, ק = *k*, ר = *r*, שׁ = *s*, ת = *t*.

The Assyrian syllabary made no difference between *b* and *p* final; similarly between *f*, *c* and *k* final, or *z*, *ś* and *ts* final, or *t*, *d* and *dh* final.   Unless, therefore, the syllable is doubled, and the initial letter of the next character determines the value of the last preceding, we have to be guided by comparison alone in fixing upon the root.   Between initial *p* and *b*, again, when followed by *u*, and between initial *z* and *ts*

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[1] This will contain all that is needed by the student of Assyrian grammar. At the same time the syllabary is very incomplete (*e.g.* the character under *lak* has further values of *gal* and *issep*, that under *du* of *gub*, *sā*, *rā*, and *dun*, that under *ḳap*, which does not require a query, is the Assyrian *sumilu*, "left"), and a considerable number of rarer characters are not given at all.   *Rām* is Assyrian ("high"), not Accadian, which is *aca*. The character marked 15 in p. 34 of the Grammaire was phonetically *gā*, No. 16 is *ur* Accadian, not connected with Semitic אוּר; 14 was *ucu* (*sivan*); 13 was *uru*; 12 was (Accadian) *urud*, Assyrian *eru* ("metal"), and so on.   The characters in p. 86 are similarly deficient.   The first meant "south"; 8 is "a goat" (Assyrian *caranu*); 9 meant "limb" or "body" (Assyrian *si-'i-ru*); 10 was in Accadian *cit*, just as 2 was *ugudili*.

Since the above was written, Mr. G. Smith has published his "Syllabary," which leaves but little to be desired in this part of the subject.

when followed by *a*, as well as between initial *dh* when followed by *a* or *i*, there was the same confusion. The Assyrians did not improve upon the syllabary which they borrowed, and which in some respects was not well adapted to express a Semitic speech.

א is expressed by the same letter, whether it denotes a syllable or merely a long vowel (1). Thus *ta-'a-ru* (תאר, "to return, become") and *khar-sa-a-nu, kharsānu,* "forests," have both the same character. The same holds good of *i* and *u*. *A*, as the weaker letter, is lost after or before *u*, e.g. *usalic* for *a-usalic, u'ulla* for *u-alla*. It is very commonly weakened to *i*, as in the cognate dialects. In this case the Babylonian dialect generally had *e* in place of the guttural; e.g. *rēsu,* "head," Assyrian *risu* (like *recutu* for רחק). *A* with *h* following coalesces into a long syllable, as *dlu*=אהל or *nāru* by the side of *nahru*. In correct orthography *h* is written when a syllable is denoted; thus we have indiscriminately *na-h-ru* and *na-'a-ru,* "a river." *H* is sometimes used to represent the diphthong *ai:* thus "house" is either *bi-ya-he, ba-h-tu, bi-'i-tu,* or more commonly even *bi-tu.*[1] *H* also stands for ע, e.g. *ri-h-u-tu* and *ri-e-u-tu,* "rule" (from רעה), *rah(i)mu* and *remu, bu-h-i,* "seeking" (from בעה). It sometimes expresses the breathing before verbs which have a vowel as first radical, e.g. *ah-a-bid,* "I perish," *u-h-a-bid,* from אבד, *u-sa-h-lid, ah-al-du* from אלד (2).

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[1] This is an instance of the tendency of the Assyrians to corrupt their language by breaking down the syllables. In this respect they are the Latins of ancient Semitism. Another instance of this tendency is shown in the fact that ע is always a vowel simply. The confusion of syllables is carried so far that we get ה dropped altogether ; *e.g.* for *u-tu-h-ut* (תאוה), the later inscriptions give us *utut.*

ו as a consonant is not distinguished from *m*. This is a fault of the original system of writing, but it has had great influence upon the Assyrian. In this way the mimmation has hardened into a long vowel (*tum, tuv, tū*). The conjunction after a verb which ends in a vowel is represented by a character which usually stands for *ma*, but here is *va*. Hence, after the mimmation, it is impossible to say whether *ma* or *va* is to be read; probably the former (see below). "The suppression of *m* or *v*," Dr. Oppert says, "is more frequent than in the other Semitic languages." Conversely, we find *acmu*, "I burned" (כמה), Hebrew כוה, *amaru*, "seeing," Hebrew אור (but also *urru*), etc. So in Æthiopic *m* and *v* interchange, e.g. *masaca* and *vasaka* (3).

As a vowel, *u* is expressed by three different characters, properly *hu, u,* and *va,* though this distinction is not always observed. The cuneiform could not express either *yu* or *uy;* consequently these sounds had to be expressed by *u*. Hence the first and third persons of pael, iphtaal, etc., are *written* in precisely the same way, though pronounced *u*- and *yu*-. So, again, we have *abu'a, katu'a* for *abu-ya, katu-ya*. This want of inventiveness and adaptation on the part of the Assyrians argues against the Semitic origin of the Aramaic alphabet. *U* hardened easily into *va*, as in all Semitic tongues : thus, *yunakkaru-va*, " he shall destroy, and" ; *kharri va bamāti*, "the valleys and heights" ; *issukh-va*, "it was removed and." In both the latter instances we should usually have had *u*, since, as in Hebrew, the conjunction inclines to a vowel-sound before a labial. This *va* sometimes becomes simple *a*, the *u* being lost altogether, as in *sukalula* for *sukalul-va*, or *dhābu* for *dhăvăbu*. *U* passes

readily into the weaker *i*, e.g. *sunu* by the side of *sina*, *uraps-inni* for *urapsu-inni* (comp. *optumus*, *optimus*).

B before *v* is generally assimilated, e.g. *eruv-vă*, "he descended and," for *erub-vă*. Conversely, *vă* becomes *ma* after a preceding mimmation, as *abnum-mă*, "I built and," where the second *m* merely expresses the length of the preceding syllable, which has been lengthened by the enclitic, and the loss of *w* (or *v*).

Z as in Hebrew never changes to a dental. *Z* in Babylonian may take the place of *ts*, as in *erzitiv* for *irtsitiv*. In Babylonian, also, we find *Bar-zi-pa* taking the place of the Assyrian *Bar-śi-ip*, or *Bar-śa-ip* (where we have again to notice the confusion between *ai* and *ī*). Rarely *s* and *ts*, when followed by *i*, are confused; e.g. we find both *takhāzi* and *takhātsi*, "battle," (מחין) and *arzip* by the side of *artsip*, "I built," (רצף). Compare זעק and צעק, זין, and צין, etc., in Hebrew. The Assyrian tendency to soften the pronunciation is exemplified in their use of ע (though their preference for צ in many cases, and their preservation of the sibilants show that this tendency had not gone far). Once we find the extraordinary assimilation of *śkh* into *zz*, and *śś* in *śazzaru*, "small," for *śaśkharu*, and *śiśśeru* for *śiśkhiru*.

Kh like *r* can be invariably doubled, as in Arabic (like מָרָה Prov. xiv. 10; שָׁרְדֵּ Ezek. xvi. 4). It is occasionally used to express the guttural sound of the Hebrew ע, as in *Khazitu*=עַזָּה Γάζα. Conversely, we have חדקל for *Idiklat*. This, however, was Accadian, not Assyrian; and the Assyrian *imiru* is not חֲמוֹר, but Phœnician and Aramaic אֲמַר. The Assyrian tendency towards a soft pronunciation showed itself

in sometimes omitting the medial or final ה of a root, its place being supplied by the simple aspirate : e.g. פתח is always *pitu'u*, and *katu*, "hand," is perhaps from לקח, the Assyrian form of which is *ilkū*, "he took." *Rukutu*, again, "distant," is the Assyrian form of רחק. In Babylonian it is *ri-e-ku-tu* or *ri-e-cu-tu*, where ע replaces ה. So also *apte'e* instead of the ordinary *apti* from פתח.

Dh is found for *t* after a guttural : e.g. *akdhirib*, "I approached," the iphteal of קרב. So *d* replaces *t* after *m* or *n* ; e.g. *imdanakharu*.

I is regularly found in the place of the Hebrew א, whenever this last varies with י, either in Hebrew itself or in the cognate dialects : e.g. *ris*=רֹאשׁ (רישון), Targ. רים), *zîbu*= ذئب . In Assyrian itself, *a*, first weakened to *i*, was absorbed by an *i*: e.g. *yutir*, "he restored," from *ta'aru* (for *yuta'ir*), *bitu* for *bi-ya-tu* or *ba-hi-tu* (בית), etc. So in the third person *ispur*, *ispuru* for *yaspur*, *yaspuru*. Hebrew, Aramaic, Æthiopic, and Himyaritic, show a similar weakening. *I* interchanges also with *e* : e.g. *ci-i-nu* (Assyrian), and *ci-e-nu* (Babylonian), *tsa-'i-ri*, *tsa-yā-ri*, and *tsa-e-ri*, and the oblique cases and plurals of masculine nouns.

I, like *u* and *a*, is never doubled.

C rarely takes the place of ג and (more frequently) ק in the cognate dialects : e.g. *kakkaru*=כְּכָר (comp. עֹהר), *cirbu* =קֶרֶב, *ca'ari*, *carie*=קִיר הָרָה, *cutsbam*, "beautifully"= קצב.

C and *ts* are frequently combined in roots, where Hebrew, etc., prefer the softer consonants : thus *actsur* (from *catsiru*) =גזר, *cutsalu*=גוזל, *cinitsu*=גנז.

In Assyrian itself an interchange of *c* with *k* and *g* some-
times occurs ; e.g. *cabru* and *gubru; kinnātu* ("female slave")
is on Michaux's stone *cinātu.* The latter was apparently
the vulgar pronunciation common in Babylonian. In fact,
in the Babylonian, *g* commonly takes the place of *k,* e.g. *gatu*
for *katu, śangute* for *śankute,* "chains." This pronunciation
began to prevail in Assyria in the later days of the empire.
Dr. Oppert remarks that *c* seems to have had a softened sound,
which assimilated it to the Hebrew ג; thus *Tukulti=* תגלת,
S'arru - cinu = סרגון , *Sacanu =* סגן . *Tiglath,* however,
answers to the Assyrian *tiglat* or *tigulti;* *Sargon* is not the
Assyrian *S'arru-cinu,* but the Accadian original *S'argina;* and
Sacanu, by which, I suppose, either *Sacnu* or *Saccanacu* is
meant, was non-Semitic. On the other hand, *c* and כ answer
to one another in *Nebuchadnezzar, Calah,* and *Accad.*

L is the pronunciation generally, though by no means
necessarily, assumed by a sibilant before a dental : e.g.
khamistu and *khamiltu* ("five"), *istu* and *ultu* ("from") *asdhur*
and *aldhur* ("I wrote"), *astacan* and *altanan* ("I fought"),
lubustu and *lubultu* ("clothing"), *mikhiztu* and *mikhiltu*
("strong"). *L,* however, never becomes a sibilant. This
change of consonant, peculiar to Assyrian, must have been
effected through *r* into which the sibilant first passed. Com-
pare the mutations of final *s* in Sanskrit. Before a second
hard sibilant, *s* may also become *l;* as in *ulziz* for *usziz.* In
common pronunciation *l* seems to have been somewhat *mouillé ;*
thus verbs ending in *l* generally have *a* attached even in cases
which would hardly permit the conditional suffix, e.g. *aslula ;*
while on the other hand the case-terminations are sometimes
improperly dropped before a following *l,* as in *ana gurunit lū
agrun,* "to a heap I heaped."

M usually, but not always, becomes *n* before a sibilant, a dental, or a guttural: thus we have *dhen-su* from מעם, *khansa* and *khamsa* ("five"), *khandhu* (חמם), *tsindu* and *tsimdu* ("a yoked-chariot"), *muntakhitsu* for *mumtakhitsu* ("fighting"), *dumku* and *dunku* ("lucky"). In this way is explained the change of the plural-ending into *n*, like the change of mimmation into nunnation. So in Æthiopic, *m* before dentals and labials passes into *n*. A double *b* or *p* may be replaced by *mb*, *mp* (e.g. *inambu* for *inabbu*), and a double dental by *nd*, *nt*, (e.g. *inandin* for *inaddin*) just as in Æthiopic. *M* first changed to *n* can be assimilated to a following consonant, as in *ikhkhar* from *makhiru*, *takhatsi* (for *takhkhatsi*) from מחץ.

N, as in Hebrew, is assimilated generally to the following radical. This is the rule with verbs פ'ן, though we meet with *inandin* for *inaddin* ("it is given"). Contrary, however, to Hebrew, *n* is assimilated (regularly) before *t* and *s*; e.g. *limuttu* for *limuntu* ("injured"), *libittu* for *libintu* ("brick-work"), *maddattu* or *madattu* ("tribute") for *mandantu* (*mandattu* is found); *cissu* ("much," "collected") from כנם (Targum. כנש). So in Hebrew אֱמֶת for אֲמֶנֶת, אַף for אֲנַף.

S' rarely represents a Hebrew שׁ as in *khursanis* from חרש, *si'amu* = שֵׁהֵם, *siba*, "seven" (W.A.I. ii., 19, 66). Where the Hebrew has ם and שׁ, Assyrian also has *ś* and *s;* e.g. *sarru* and *śaru* ("king"), *cabiś* and *cabisu*, "trampling." *S'* seems to have been preferred by the Assyrians, *s* by the Babylonians (see *suprá*). Just as the example of סרגון = *Sarru-cinu* shows that the Assyrian pronunciation of *s* was hard, so the fact that *t-s* is frequently expressed by *ś* points to a similarly hard pronunciation of the latter. Thus

sarrut-su ("his kingdom") is also spelt *sarruśu, kat-su* ("his land") becomes *kaśśu* for *ka-śu*. The difference between *ś* and *ts* in Assyrian was probably that between *t-s* and *t-z*. Hence a final dental followed by the sibilant of the third personal pronoun is very commonly represented by *ś*; e.g. *dannuśu* for *dannut-su, illaśu* for *illad-su*. Conversely, *s* followed by the dental of the secondary conjugation is often written *ś* (like *st* pronounced *sh* in the tenth conjugation of the Mahri), as *aśacan* for *astacan, aśicin* for *asticin, aśarap* for *astarap*. Probably, however, the sibilant in vulgar pronunciation changed the place of the dental, just as, conversely, in Hebrew the dental of Hithpael followed the sibilant. In the inscription of Khammurabi *z* takes the place of *ś* in *tsirrazina*=*tsirraśina* (*tsirrat-sina*). This hard pronunciation of *ś* would once have been universal among the Semites, as is implied by the Greek pronunciation of *samech* (ξ). The interchange of *ś* and *s* in Assyrian (mostly in the later inscriptions) would show that a softened pronunciation was becoming usual. Similarly in Babylonian we find *usalbis-śu*, "I covered it" (for *su*).

E is always a vowel. Occasionally, however, it answers to a Hebrew ח; e.g. *ecilu* ("place")=Aramaic חקל, or *rēcutu* in Babylonian = רחק. There must, therefore, have been a time when the guttural pronunciation of ע was known to the Assyrians. *E* sometimes replaces א (as in *erinu*= ארן); conversely we have *ra-'a-du* ("thunder") =רעד, *aggullu* ("wheel")=עגל. Hebrew ע is also sometimes represented by *u* or *i*, e.g. *uzalu* ("gazelle")=غزال, *Istar* = עשתר. Its pronunciation differed but slightly from that of *i*, as is shown by the interchange of the two

vowels (see *suprà*), and the fact that many characters
have indifferently *e* and *i* as their vowel-sound. At the same
time the presence of radical *e* was always observed; verbs
with *e* radical are full. *E* with *u* fell away; thus from עלה
we have *ul-la-'a* in Assyrian, and *u-'ul-la-'a* in Babylonian.
Babylonian sounded it more clearly than Assyrian (so *ci-e-nu*
for *ci-i-nu*). So from עפש, Assyrian has *epsit*, Babylonian
e-ib-sit. On the other hand, generally in Babylonian and
Achæmenian *e* was assimilated to *i*, while in Assyrian the
converse took place; thus Assyrian *ebusu* = Babylonian *ibusu*.
In both the weaker sound *a* was lost before *e*; e.g. *ebus*, "I
made" (for *a-ebus*); but *a* following assimilated even a radical
e; e.g. *isma'a* for *isme'a* from שמע. Occasionally *e* is inter-
changed with *a* in roots, owing to the guttural aspirate
common to both, like געל and גאל, אגם and עגם in Hebrew.
Thus *agu'u*, "crown," is given also as *e-gu'u* in a syllabary,
from the Accadian *ega* (compare ענה), and *eliah* and *aliah*
are used indifferently; so *erzituv* for *irtsituv* in Babylonian,
which often replaces by *e* an Assyrian *i*, where this has been
weakened from an original *'a*. In the Babylonian *recutu*
(Assyrian *rukutu*) *u* has been lost before *e*, which here re-
places *kh*.

P prevails in Assyrian where *b* appears in Babylonian, and
(often) in the cognate dialects (e.g. Assyrian *epis*=Babylonian
ebis, *pursu* = برغوت). Conversely we have *bislu* = פסל.
The two sounds interchange in Assyrian itself; thus we find
iskhupar, "he overthrew," *sikhubartu*, "overthrow," *paldhuti*,
"surviving," *baladhu*, "house" (פלט). In one instance
u seems to replace פ; *etstsuru*, "a bird,"=Arabic عصفور,
Hebrew צפור.

R, though, like *l*, sometimes used to form quadriliteral roots (e.g. *parsidu, palcitu, iśkhupar*), is much more scantily employed than in the cognate dialects. Thus we have *cuśśu'u*, not כרשה, *annabu* ("hare"), not ארנב.

S was never aspirated, as in ancient Hebrew and Phœnician *Samsu*=שמש. Dr. Oppert gives a long list of words where Hebrew has שׁ and שׂ, but Assyrian simply *s* in both cases: *sumilu*=שמאל, *siptu*=שפת, *sarru*=שׂר, *pasku*=פשק, *dussūtu* = רשׁן, *distu* = רשׁא. Already in the seventh century B.C. the Hebrew pronunciation seems to have inclined towards an aspirated *s*; this would explain the transcription of Sargon, etc., by ס. In Assyrian itself we have a word like *bis-śu, bis-śate*, and in Assur-bani-pal's inscriptions *taśbusu* is a variant of *taśbuśu*. In Arabic (and Æthiopic for the most part) *s* (*ś*)=Northsemitic *sh*, and *sh*=Northsemitic *s* (*ś*). Before a dental, *ts* might become *s*, as in *marustu* (and *marultu*) for *marutstu*. So *bislu*=Hebrew פסל, *isid*=יסד.

T servile, in the secondary conjugations, is assimilated to a preceding צ, ז, ד, and ט (e.g. *itstabat* becomes *itstsabat*, "he takes," *iztacir* becomes *izzacir, astacan* becomes *aśacan*. After a guttural, *t* servile may change to *d* or *dh*, e.g. *igdamir* for *igtamir, ikdhirib* for *iktarib, ikdhabi* for *iktabi*. We find even *amdhakhits* for *amtakhits* ("I fought"), according to Dr. Oppert through the influence of the following צ, though after *m* or *n* *t* more usually becomes *d*. *Bd* in Assyrian, again, was regularly changed into *pt*; e.g. *captu*, "heavy" (כבד), *aptati*, "ruins" (אבד). There is one instance of *d* in Assyrian and Babylonian replacing a ת of the other dialects: נתן is always *nadin*. *T* replaces *dh* in Babylonian in *tub*=*dhub* (so in Æthiopic *cadana*=כתן, כתם, *damana*=

טמן, *dabyr* = מור). The syllabary had no special character for *dha*. In *ictil*, *t* replaces Hebrew ט, as in Æthiopic.

The Assyrian avoided the use of diphthongs: *au* is very rare; perhaps the foreign name *Khauran* is the only certain example of it. *Ai* and *ya* are much more common. The Gentile termination is *ai*, e.g. *Madai*, "the Medes." *Ai* has a tendency to become *ya* or *yā ;* [1] thus *ayāsi* (אישׁ) is more usually *yāsi; aibut*, "enemies," also appears as *yābut; yanu* or *yānu* = אין. More frequently *ay* or *ya* passed either into *ah* (*bāhtu* = *biyatu*) or *i ;* while in proper names an initial Hebrew י was always *ya* (e.g. *Yahua, Yahukhazi*), in roots it was more generally *i* (e.g. *imnu* = ימן, *irad* = ירד, *isibu* = ישב, *isara* = ישׁר). Even when answering to אי, *ai* became *i ;* e.g. *inu* = און. To prevent a compound vowel, *hemza* was largely employed, as in *abu'a* for *abu-ya*, "my father." As in modern Arabic, *hemza* tended more and more to be lost: in the Babylonian period it is very generally replaced by a long vowel : so even *utut* for *utuhut*.

1. As in all ancient Semitic alphabets, '*a* was a consonant, a soft breathing, namely, followed by the vowel *a*. This will explain how it is that *ai* is represented by '*a*+'*a*. The second breathing here passed into *y*, so that we have '*aya*; and hence *ai*.

2. *H* is another instance of the ambiguity arising from the employment of a foreign alphabet. It stood for *h, ah,* and *hi*. More usually the value is *ah*.

3. In the Babylonian inscriptions the *m* final very often appears as a separate character, implying that the mimmation was more strongly pronounced in Babylonia than in Assyria. The interchange of ט and ב in the cognate languages argues the weaker and later pronunciation of ב as *v*. Assyrian does not exhibit any interchange of *b* and *m*. *B* reduplicated, however, may be changed into *mb*, e.g. *innambu*, "he is proclaimed," for *innabbu*, just as we find *ambuba* for אבוב, Ιερομβδαλ for ירבעל, σαμβύκη

[1] This is properly אי; e.g. *yarru* = יאר.

for סַבְּכָא; and conversely סִימְפֹנְיָה from συμφωνία. The change is an Aramaising one, and therefore exceptional in Assyrian: more frequently in (mercantile) contract tablets of late date.

There is no trace of aspiration in Assyrian in the letters *b*, *g*, *d*, *c*, *p*, *t*. In Hebrew also the *dagesh lene* would be of late introduction, caused by Aramaic influence, as the alphabet, like the cuneiform syllabary, uses but one character for both sounds. So, too, in Arabic and Æthiopic. Equally unknown to Assyrian are the sounds elaborated by Arabic ظ, ض, غ, خ, ث (ش), and ذ; or (as in modern Aramaic) the *f* of Arabic and Æthiopic. The soft pronunciation of *gimel*, again, is not found.

The accent, as in Arabic, is thrown back as much as possible. Without doubt, this was also the usage of ancient Hebrew (as is shown by the segholates) before the necessities of a rhythmic intonation of the Old Testament changed the accent. The accent is upon the antepenult, unless the penult has a long vowel or is a closed syllable. The accent is often indicated by the incorrect insertion of a long vowel or a double letter. Besides accent, Assyrian observed the laws of quantity. A long vowel was according to rule expressed, though in many cases omitted (as in the case of the double letters). In the *nomina verbi* a short vowel in the second syllable was generally dropped before the case-endings. The accent and the quantity seem to have coincided, as in Arabic, whenever a word possessed a long syllable not further back than the antepenult or not in the last syllable. There was a tendency to shorten vowels and words in the later period; thus the Babylonian inscriptions give us *labri*, for which the Assyrian is always *labiru* ("old"). When a

word consisted of three short syllables, the second vowel was generally dropped, making the first a closed syllable long by position ; thus *mălĭcŭ* becomes *malcu*. The enclitic threw back the accent upon the preceding syllable, even though this had a long syllable before it; e.g. *illicūnĭv-va* (for *illicūnĭ-va*), *ikhdu'uninni* (for *ikhdhūnĭ-nĭ*).

The doubling of a consonant was frequently disregarded even in *pael*[1]—sometimes it was replaced by a long vowel, more often by the accent merely, as in *lĭ-mu* for *lim-mu* in contract tablets.

THE PRONOUNS.

The personal pronouns in the Semitic languages, as in the Aryan, are formative elements of the verb, and therefore must be considered first.

SINGULAR.

I, me = *anacu*; *yāti, yati, yātima*.
Thou, thee (masculine) = *atta*; (feminine) *atti*; *cāta* (*cāti*).
He, him (masculine) = *su'u, su*; (feminine) *si'i, si.*

PLURAL.

We, us = [*anakhni*].
You (masculine) = *attunu*; (feminine) [*attina*].
They, them (masculine) = *sunu, sun, sunutu*; (feminine) *sina, sin, sinatu.*

Attina has not been found, but analogy would lead us to this form. *Anakhnu* or *anakhni*, Dr. Oppert's conjecture, is probably right. The word is met with only in a mutilated part of the Behistun inscription (1. 3), where Sir H. Rawlinson's cast reads doubtfully *a-ga-ni*. As the suffix of the noun is -*ni*, the form *anakhni* is to be preferred, *u* being weakened to *i* through a false analogy of the plural termination.

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[1] So in Hebrew, Æthiopic, etc.

Anacu is Hebrew אָנֹכִי, Phœnician אנך, for which in the other dialects we have only *ana, ani,* or *eno.* Traces are found in the Æthiopic tense-ending *-cu,* Mahri *-k* (Arabic and Hebrew *tu* and *ti*). The plural in all the dialects is manifestly formed from it, *c* becoming *kh.* In Coptic (and Old Egyptian) *anok* (and *nuk*)="I," *anen*="we"; so in Berber *nekki*="I," *nekni*="we." The relation of these sub-Semitic dialects to the Semitic family is very questionable. Vulgar Assyrian used *anacu,* in the place of the suffix pronoun, after a preposition, e.g. *assu anacu,* "as regards myself" (S.H.A. 190).

The Arabic and Æthiopic *ana,* Hebrew *anî,* point to another form of the pronoun in *ya.* This has lost the final vowel in Hebrew and the initial vowel in the other two languages. It is the form that appears as the suffixed pronoun in Assyrian *ya,* later *i* and *a,* in Hebrew, Arabic, and Aramaic *i,* in Æthiopic *ya.* The Assyrian alone uses this without the verbal root *an* preceding, substituting for the latter the abstract termination *tu, ti,* as in *sunuti* by the side of *sunu,* or *ristu,* "chief," from *ris,* "head" (compare Æthiopic *we'tu,* "he," and *ye'ti,* "she"). *Yâti* is often shortened to *yati,* just as in Arabic *'anâ* is used by the poets as a word of two short syllables. *Yatima,* "me here" (e.g. *cima yâtima,* "like me here"), has the demonstrative *ma* added (as in *suma*), for which see below. *Yâti* is for the most part used only at the beginning of a sentence, but we find also *ikbi yati,* "he told me." I have not found it, except in Babylonian inscriptions, and those of the later Assyrian empire (after Sennacherib). *Yâti* is not to be confounded with *yâsi* or *aisi,* "myself." This is *yasu* (אָישׁ), "man," (used for "self,"

compare 1 Kings xx. 20, etc.), with the pronoun-suffix of the first person added (*yās-i*). *Yā'a* (S.H.A., 37, 9) is irregularly lengthened from *yā*, like *ma'a* for *ma*. The survival of the old word for the first personal pronoun in Assyrian is parallel to the existence of י as third personal pronoun in the Phœnician—a form pre-supposed by the third person of the verb.

In the second person, again, Assyrian agrees with Hebrew in assimilating the nasal to the dental, while the other dialects have *anta* and *ant*. The Coptic *ntok* and Berber prefixed pronoun *ewent* have been compared. The interchange of guttural and dental already noticed appears in the Æthiopic tense-ending *ca*, *ci* (Mahri *-k*, *-sh*). Hebrew has in most instances shortened the feminine to *att'*, just as Aramaic has contracted the masculine. In the plural, *antumu* has become in Assyrian *attunu*, like Aramaic *antûn* and the feminine plural in all the dialects. Assyrian and Æthiopic alone preserve the case-ending of the masculine, though it is found also in Arabic poetry. Like *sunuti* and *yāti*, *attunu* is used in vulgar Assyrian as an accusative after the verb in place of the suffixed pronoun (e.g. *altapra attunu*, "I sent to you," where the preposition is ungrammatically omitted). *Cāta* (in the accusative) is employed for the sake of emphasis after a preceding verbal-suffix *ca*, which is changed into a separate pronoun by the abstract termination *tu*, *ta* (e.g. S.H.A., 180, *usamkhar-ca cāta*, "I cause thee, even thee, to be present," as tributary).

The verbal root with which the pronouns of the first and second persons are compounded is regarded by Dr. Hincks as אֵין, "adesse," whence the preposition *ana*. I should prefer

אֲנֶה. Dillmann regards it as the pronominal element *n* or *na*, "there," whence נָא, הִנֵּה, etc., with *a* prefixed. The demonstrative *annu* is referable to the same source. The third personal pronoun is peculiar, but apparently exhibits a more primitive form than is the case in the cognate dialects. See page 12.

'*U* in *su'u*, and '*i* in *si'i*, answer to Arabic *wa* and *ya* in *huwa* and *hiya* (1). They are more often found in their contracted forms (as in Hebrew and Aramaic). The full form of the plural was *sunuti* (*sunutu*), frequently shortened to *sunut*,[1] and still more frequently to *sunu*. This, again, especially before consonants, might be still further shortened to *sun*, just as we find in the singular *s* for *su*, e.g. *usadlimu-s*, "they conferred on him." It is in these pronouns, the words most in use, that we find the first tendency to drop the case-endings: besides the third personal pronoun, in the first person of the permansive tense we have *pitlukhac* (" I worship ") for *pitlukhacu* (2).

1. *I* is a weaker vowel than *a* or *u*, and therefore more fitted to express the feminine. So in the Aryan languages we have *ayam*, "this," masculine, *iyam* feminine.[2]

2. To compare these pronouns *acu*, *ta*, and *su'u* with the Aryan personal pronouns is unscientific. We have no standard of comparison: it is impossible to say in what form an Aryan guttural or dental would appear in

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[1] *Sunuti*, *sunut*, are specially separate forms; *sunu* generally, and *sun* always, being used as suffix-pronouns. The second case-ending -*i*, the weakened -*a*, is used rather than -*a* because the ideas of motion towards a place and rest are not so prominently brought forward as in the case of the ordinary substantive. *Sunutav*, however, is sometimes found, and even *sunutu*.

[2] So in Mantschu *ama* = "father," *eme* = "mother," *chacha* = "old man," *cheche* = "old woman"; in Carib *baba* = "father," *bibi* = "mother." Compare the list of pronominal words in Tylor, "Primitive Culture," vol. i., p. 199.

Semitic. Moreover, the original Aryan first personal pronoun was *ma*; the nominative was of later formation. *Ac* and *ta* are primitive sounds, and we do not know what form they originally had. Phonetic decay would tell primarily upon the pronouns, and *su'u* has preserved its dissyllabic origin owing to its want of a supporting prefix. At an early stage in the language the guttural and dental seem to have been interchangeable : just as in the verbs the first person appears in Hebrew and Arabic as *ti* or *tu*, so in Æthiopic (and Mehri) the second person is *ca*, *ci*, *cymmu*, *cyn*, (*cem*, *cann*). And the guttural is always found in the suffixed pronouns. (Comp. שתה and שקה.) The evidence of the sub-Semitic languages may also perhaps be adduced. Coptic gives both dental and guttural combined for the second person *ntek*, and in Berber we have *kecchi* (masculine), *kemmi* (feminine), and in the plural *kunvi* (masculine), *kunvith* (feminine). This may lead us back to a stage of language when, as in Japanese and other Allophylic tongues, there were no words set apart specially for the different pronouns, but some root of general meaning ("servant," "one," etc.) was employed sometimes for one person, sometimes for another, according to the context. Comparison would lead us to infer that the original root used for the first two persons was *'eteq*, *'eceq*, or *'ecet* (the initial being retained in *acu*), and this reminds us of אחד, "one."[1] For the change of ך and ח compare אנכי and אנחנו. For *su'u* we may have שוה, "like," "companion," which in Assyrian takes exactly the same form as the pronoun *su'u*.

The suffixed pronouns will be treated of under the verbs and the substantives (see below).

The Demonstrative Pronouns.—The Assyrian was rich in these. The usual demonstratives "this," "that," were declined as follows :—

SINGULAR.

Masculine	Feminine
su'atu.	*sa'atu, siatu.*
su'ati.	*sa'ati.*
su'ata.	*sa'ata.*

PLURAL.

Masculine	Feminine
su'atunu, su'atun.	*sa'atinu, sa'atin.*
su'atu'ni.	*sa'atini.*
su'atuna.	*sa'atina.*

[1] Two objections must be set against the assumption of this root : אחד seems to be of Turanian origin (see below), and *d* is not *t*. Perhaps the original root may better be sought in Arabic *'acca*, "amavit," or Æthiopic *acata*, "to honour," "thank."

Another form of the pronoun, which seems to be employed indifferently with it, is *sasu* :—

<div align="center">

SINGULAR.

Masculine—*sāsu* (*sa'asu*).   Feminine—*sa'asi*, *sa'asa*.

PLURAL.

Masculine—*sāsunu*, *sāsun*.   Feminine—*sa'asina*, *sa'asin*.

</div>

Both forms immediately follow their substantive. *Sāsu* may be used alone in place of the separate personal pronouns. *Su'atu* is merely a secondary form of the third personal pronoun, in which the radical *a* (as in הוא) is preserved by the termination *t-u*. The feminine is formed similarly from *să*, the form taken by the third pronoun when suffixed. *A* has been weakened to *i* in *si'i* on account of the following *i*: in *sa'atu*, however, it is preserved by *ā* following, though we also find *siatu*. *Sasu* is a compound of the relative and the third personal pronoun; so that *bitu-sasu* would be literally " house which (is) it," *i.e.* " that house."

In the Achæmenian period we find a new demonstrative in common use, *'agā* or *'agah* :—

<div align="center">

SINGULAR.

Common gender—*agā*, *agah*.   Feminine—*agata*, *agāta*.

PLURAL.

Common gender—*agā*.

</div>

This is compounded with the demonstrative *annu* and the personal pronouns so as to strengthen the determinative idea; thus :—

<div align="center">

SINGULAR.	PLURAL.
Nominative—*agannu*.	Masculine—*agannutu*.
Accusative—*aganna*.	Feminine—*agannitu*, *aganēt*.

aga-su'u, " he namely," *aga-sunu*, " they namely."

</div>

The word is often employed like a mere article, as (הל) in

Hebrew, اَل in Arabic: thus while it usually follows its noun, we meet with *agannituv mati*, "these countries," and both *aganet mati* and *mati aganet*. So, too, *aga-su'u* by the side of *su'u aga*, which also occurs at the beginning of a sentence. The origin of the word is obscure: it can hardly be the Accadian demonstrative *gan*. In Himyaritic *agi* has been doubtfully read as the relative pronoun. According to Dillmann *ca* is the Semitic demonstrative root for indicating the further object, as in ذَالِكَ (?), זֶה, Æthiopic *zycu* ("that"). As the word, however, does not make its appearance until the Achæmenian period, perhaps it is best to regard it as of foreign origin.[1]

In classical Assyrian three demonstratives are used to express determinative distance, *ammu* or *ma* ("hic"), *annu* ("iste"), *ullu* ("ille").

SINGULAR.

PLURAL.

Masculine $\begin{cases} [ammu]. \\ [ammi]. \\ [amma], \text{ or } ma, m\bar{a}. \end{cases}$ Masculine $\begin{cases} [ammutu], m\bar{a}. \\ [ammuti]. \\ [ammuta]. \end{cases}$

Feminine $\begin{cases} [amm\bar{a}tu]. \\ amm\bar{a}te. \end{cases}$ Feminine—[ammete].

Ma, the shortened form of *amma*, is appended as an enclitic to nouns and pronouns: e.g. *sar Assur-ma*, "king of this same Assyria" (*i.e.* "also"), *racibu-sin dicu-ma*, "their charioteers were killed here," *yatima*, "I here" ("for myself"), *ina asariduti-ya-ma*, "in this my pre-eminence," *ultu usmani annite-ma*, "from that camp here," *ina lime anni-ma*, "in the eponym of this person here" (*i.e.* "myself"). *Annima* is frequently contracted into *anma*, and once we have

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[1] Prof. Schrader regards it as an Aramaism, referring it to דֵּךְ, דָּךְ.

annimma. *Su-ma*, "that," is also used absolutely for "him."
We even find *ina sanati-ma siati*, "in this very year." The
explanation of this word is due to Mr. Norris. *Ma* is irregu-
larly lengthened to *mā* or *ma'a*, and is then often used as
a conjunctive particle (like *sa*) with the meaning "since,"
"that being so." We have one instance of *mā* employed
absolutely with a plural verb (S.H.A. 156, 50), *mā sa icbudu,*
"one of them who laboured." *Suma* in its demonstrative
sense follows the noun (like הוא) and is interchanged with
su, as in *ina yumi suva* or *su*, "on that day." We may
compare the Phœnician third person singular pronoun suffix
ם־, as also the Hebrew ־כֽמוֹ.

SINGULAR.		PLURAL.	
Masculine	*annu.* *anni, anni'i.* *anna, anna'a.*	Masculine	*annutu.* *annuti.* [*annuta*].
Feminine	*annātu* *annāte.*	Feminine—*annetu, annitu.* Common gender—*anne.*	

Another form of this pronoun, more nearly representing
the Hebrew הֵן, הנה, is *'a'anati* (S.H.A. 103), and *'a'anni*
(W. A. I. II. 60, 11).

From *annu* we get the prepositions *anna, inna* (to be dis-
tinguished from *'ana, 'ina*); like *ulli* ("among") from *ullu.*

SINGULAR.		PLURAL.	
Masculine	*ullu.* *ulli, ullē.* *ulla.*	Masculine	*ullutu, ullūtu, ulluai* (Achæmenian). *ulluti.* *ulluta.*
Feminine *ullātu.*		Feminine [*ulletu*].	

Ullu is also used absolutely in the common phrase *ultu ullu,*
"from that (old) time." In an Achæmenian inscription
ullu is joined with *ma*, *ullumma*, "that thing." *Ulluai* is a

product of the Persian period, and Xerxes even gives us the monstrous compound *akhulluai ullī*, "those shores," for *akhi ullutu.*

Ullu is Hebrew *ēl, ēlleh,* Aramaic *illēyn, illeyq,* Arabic *al, ilā, ulai, ūlai,* Æthiopic *yllā, yllū, yllāntu, yllontu : annu* connects itself with the Æthiopic *yntyq* and *ynta ;* and *ammu* is one of the archaic forms preserved in Assyrian which make this language so valuable to the philologist. Traces of it are found in אִם (Assyrian *im*), Arabic *in,* Æthiopic *ema : annu* pre-supposes *ammu,* just as the plural affix has changed from *amu* into *anu,* or Arabic *am* into *in.*

The Relative Pronoun.—This is *sa,* identical with the Phœnician שׁ and northern and later Hebrew שֶׁ (in Canticles, Judges, and Ecclesiastes), which appears again in Rabbinic שֶׁ. Here, again, Assyrian and Hebrew agree. In the other dialects we have a different root employed : Æthiopic *za,* Aramaic *di,* Syriac *d',* Himyaritic *d,* Sinaitic *dī* (Hebrew זוּ, זֶה), Arabic *allazī* (הַלָּזֶה) and *zū. Sa* is often used pleonasti-cally to introduce a sentence (like *que* in French patois), "as regards which." The genitive, when the relation is not expressed by the construct state, is formed by the relative pronoun (e.g. *sarru sa Assur*), as in Æthiopic, Himyaritic, Sinaitic, Aramaic, etc. We have traces of this in Hebrew, e.g. *Methu-sa-el.* The Phœnician uses שׁ in this sense exactly as in Assyrian (e.g. הבנם שאבנם, "the builders of stone "). We find also *sa ana* used rarely to express the genitive, like אֲשֶׁר לְ and Rabbinic שֶׁל (compare Canticles i. 6, iii. 7). In relative sentences *sa* may be omitted, as in Hebrew and Arabic. "That which is not," is *sa-lā. Sa* must not be

connected with אֲשֶׁר (?=אֲתַר, *asaru*, like *so*, " place,"
" which," in Chinese), while the Phœnician אשׁ (*ys*) is
probably אִישׁ. *Sa* was originally the demonstrative, and
stood by the side of *su*, *sa*, *si*. Himyaritic and Æthiopic
show traces of a pronoun *s*. Like אֲשֶׁר, *sa* is indeclinable.
In vulgar Assyrian it was often used without an antecedent
(e.g. *ina sa Gargamis*, " after (the maneh) of Carchemish ").

The Interrogative Pronoun.—This is *mannu*, *mānu*, or *man*,
" who ?" contracted by the vulgar pronunciation into *mā*. *Ma*
appears in the adverb *matima*, " at any time" (Hebrew מָתַי,
" when "), where the demonstrative *ma* is attached to the
interrogative with *ti* affixed. In the later inscriptions *matima*
is used as an interrogative, e.g. *sa matima*, " of what place."
Mĕ or *mi*, weakened (because either a neuter or an enclitic)
from *mā*, is found attached to *mannu*, which is thus redupli-
cated; e.g. *mannu-mĕ attā akhū*, " who (art) thou brother ?"
Mānu is Æthiopic *manu*, *mi*, *ment* ; Arabic *man*, *mā* ; Aramaic
man, *mā* ; Hebrew *mi*, *mah*. *Mi* was also used by the
Assyrians, as is proved by the indefinite *mimma* and the exist-
ence of *mē*. The interrogative enters into the composition of

The Indefinite Pronouns. — These are *mamman*, *mamma*,
manumma, or *manamma* in Assyrian, *manama* in Babylonian,
manma in Achæmenian, " aliquis." In *manama* or *manamma*
and *manumma* (where the double letter merely expresses the
accent), the interrogative precedes the demonstrative ; [1] in
mamman (where the accent again occasions the double letter)
the converse is the case. Dr. Oppert compares ὅστις. Just
as in Arabic, etc., the interrogative becomes conjunctive : thus
at Behistun we have *manu atta sarru*, " whatever king you

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[1] So in *sanumma* and *sanamma*, " another," from *sanu*, " second," and *ma.*

may be" (so in כְּמוֹ ,כְּמָה, Aramaic *c'mah*, Arabic *cam, camā*, Assyrian *cima*). "Whatsoever" was *mimma*, from the neuter *mi*. Followed by *lā* before the verb, *manama* = "nobody": in the Achæmenian period the negative might be dropped, *manma* having acquired a negative sense like *personne*, etc., in French; e.g. *manma isallimma*, "no one accomplishes." Just as *manu* has become מָה in Hebrew, so in Assyrian we find *mamma* (for *manama, manma*) like *mē* used as an enclitic: *lū aba lū khallū manma*, "whether an officer or any common man whatever."

Another indefinite pronoun is the indeclinable *mala, mal*, "as many as," whose meaning was first pointed out by Dr. Hincks. *Mala* would be compounded of the conjunctive *manu, ma*, and the demonstrative *la*, which we have repeated in Æthiopic *lala*, "he himself," and which may possibly be related to *ullu*, אֵלֶּה, Æthiopic *al*; just as the two negatives אַל and לֹא, Assyrian *ul*, and *lā* or *la* stand over against one another.

"Some"—"others," is expressed by *anute—anute* and *akhadat—akhadat* or *akhadi—akhadi*. As an adjective "other" is *akharitu*. *Sanumma* is "another." We also find *estin ana estin*, "one to another."

The Reflexive Pronoun.—This is *ramanu, ramani, ramana, raman*, so excellently explained by Dr. Oppert. He first pointed out its true meaning and derivation. The first syllable is long, for *rahmanu*, from *rahamu*, the Assyrian form of רחם which we get in *rihma*, "mercy," and *ra'im misari*, "lover of justice" (whence אברהם according to Harkavy, Rev. Israél., March, 1870). *Ramanu*, therefore, is primarily "bowels," then "self," עצם. It is combined with the

personal pronoun suffixes, so that we have *ramaniya*, "my-self," *ramani$_{ca}^{ci}$* "thyself," *ramani$_{su}^{si}$* "himself," "herself," [*ramanini,* "ourselves,"]   [*ramani$_{cun}^{cin}$* "yourselves,"] *ramani$_{sun}^{sin}$* "themselves." The second syllable was ac-cented :[1] hence the nasal is often doubled (*ramannuca*). Sometimes, however, the accent was kept on the (long) first syllable; this necessitated the excision of the second (*ram-nisu*). Another word for expressing the same idea is *gadu,* "an individual" ("a piece cut off"), which is sometimes combined with *sāsu* (as *sāsu gadu*). *Sāsu* may also be used alone in the same sense; and *anni-ma* or *anma* is common for "myself" (like ὅδε in Greek). So "myself" is also ex-pressed by *yās-i* or *ais-i* (see *suprà*).

Su or *sunu* placed before the noun gives it emphasis, e.g. *su Elamu,* "the Elamite himself."

THE VERB.

The Assyrian verbs are for the most part triliteral. There are very few quadriliterals. This assimilates Assyrian rather to Hebrew, than to Arabic and Æthiopic. Verbal roots will be discussed further on.

The verbs are either complete or defective. The latter will be arranged as in the Hebrew grammar : verbs פ'נ; verbs פ'א, פ'ו (פ'ה) פ'י; verbs ע'ו, ע'י; verbs (ל'ה ל'ו),

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[1] This is occasioned by the shortness of the last syllable, which obliges the accent to be on the preceding syllable. Properly the vowel of the servile abstract termination in *n* was short (*ă*) (lengthened in Æthiopic, Hebrew, [and Arabic], though words like Æthiopic *yrgynā*, "age," bear witness to an originally short vowel), thus distinguishing it from the long vowel of the plural termination in *ānu.*

לֹא; and verbs doubly defective. Verbs ע"ע are not irregular in Assyrian. Instead of verbs ע"ו, ע"י, the language preferred verbs ע"ע, which therefore exist in an unusual number. Verbs ע"א or ע"ה are regular. Verbs ל"ע are conjugated in great measure like verbs ל"ה. Indeed ע radical in any place produces certain peculiarities. Verbs containing ה, however, do not deviate from the ordinary type.

There are six conjugations in ordinary use, each admitting a secondary conjugation. Others are occasionally met with, anomalously, as in Hebrew.

The secondary conjugations are formed by the insertion of *t* (sometimes changed to *dh* or *d*, p. 29) between the first and second radicals. In concave verbs the dental precedes the first radical. The six principal conjugations with their secondary forms are as follows :—

(1.) Kal, as *catim*; aorist *ictum*.
(1a.) Iphteal, as *pitlukh*; aorist *ikdhabi'*.
(2.) Niphal, as *nanzuz*; aorist *issacin*.
(2a.) Ittaphal, as aorist *ittalki'*, *ittapalcit*.
(3.) Pael, as *hallac*, aorist *yunaccir*.
(3a.) Iphtaal, as aorist *yuptadhdhir*.
(4.) Shaphel, as aorist *yusalbis*.
(4a.) Istaphal, as *yultisib* (for *yustisib*).
(5.) Aphel (found only in concave verbs), as aorist *yudhip*.
(5a.) Itaphal (found only in concave verbs), as *yutacim*.
(6.) Shaphael (found mostly in verbs ל"ה), as *yusnammir*, *yusrabbi'*.

Traces of other conjugations are also found. The most common of these are an *iphtaneal* (1b), an *iphtanael* (3b), an *ittanaphal* (2b), and an *istanaphal* (4b); e.g. *istanahālu* ("they asked one another") *ictanarrab* ("he approaches

near "), *ikhtanabbata* ("he wasted much"), *istanappar* ("he sends forth often"), *istandakhu*, *ittanallaca* ("he goes repeatedly"). These forms with the inserted nasal may be compared with the fourteenth and fifteenth Arabic conjugations.[1] It is possible that this strengthened form of the secondary conjugations in Assyrian was influenced by the Accadian causative, which inserted *tan* between the pronoun and the verbal root. It retains the original meaning of reciprocity more persistently than the form with a simple dental. Another conjugation rarely found is an *istataphal;* e.g. *yustetesser* or *yustetesir* from עשׁר, *yuctatatsir*, "he marshalled" (*Iphtatael*). A *Pilel* and a *Palel*, also, like Arabic conjugations ix. and xi., are occasionally met with (mostly in concave verbs), as *acsuttu* ("I acquired," for *acsūddu*), *isaccannu* ("they place"), *ipparsiddu*, "they fled"; *yutarru* ("they bring"), compared with *yutaru* Pael present, and *yutirru* ("he returned") compared with Pael aorist; *irtenin*, "he made"; *iddanan*, "he gives." Examples of a *Poel* and *Hithpoel*, Arabic conjugations iii. and vi., are *ilubusu*, "he had put on";[2] *etupusa*, "I made." A Tiphel with passive signification seems to occur in the permansive *tebusu*, "he has been made" (W.A.S., 17, 1, 1). Compare the participle *etpisu*, "constituted." *Illilliq*, "he went," is an instance of a form with the second radical doubled.

Concave verbs have a peculiar conjugation, in which the aorist and present agree with the Pael of regular verbs; the permansive, however, takes the form *niba* ("told"), *dicu*

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[1] So in Æthiopic a short tonic vowel may strengthen itself by an inserted nasal, e.g. *zyntu* for *zytu*.

[2] This cannot be passive of Pael, as the meaning is against it, and we ought to have *yulubbisu*.

("smitten"), *nikha* ("rested"), with a passive or neuter meaning. So in Arabic we have *kīla*, perfect passive i. of *kulu :* hence we may conclude that the Assyrian *niba* stands for *nivuba* (like *limunu*, see below).

As in Arabic, every conjugation, except Niphal and Ittaphal, possesses a passive formed by means of the obscure vowel *u*. Kal also has no passive, Niphal being used for it.[1] As the signification of Niphal was originally reflexive, not passive, Kal in Assyrian nevertheless wanting a passive, it would seem that the passive was a late addition to the Semitic verb. This is confirmed by its being found only in Arabic and Assyrian. The passives of the other conjugations of the Assyrian verb are as follows:

(3.) Pael makes *nuššuku* ("they climbed up"), *surrup* ("he is burned"), *gubbu* ("he is proclaimed"). The Aorist *yunummir*, "it is seen."

(4.) Shaphel makes *sukuru* ("they were made to be called"), *suluku* ("they were made to go"). When the permansive had a vowel attached, the vowel of the second syllable could be irregularly changed to *a*. Thus we find *subaruru* ("he drives away"), and *sukalula* by the side of *sukulula* ("he caused to reach"). The aorist would be *yususlim* ("he caused to be finished"), as we find *yusuti*.

(5.) Aphel seems to make *yudhbu* ("they were made good"). This is rather the aorist than the permansive, which ought to be *udhubu*.

(4a.) Istaphal makes *sutesuru* ("they were kept right"), *sutabulu* from בֹל.

I have found no examples of a passive in the remaining conjugations.

In (1a) Iphteal, however, we have *latbusa* ("they were covered"), with which we may compare the form of the *nomen mutati* of Kal, as in *darummu* ("a habitation").

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[1] In *sipru suatu ippusu*, "this message has been accomplished," *ippusu* is not passive, but a late irregular form (as in Babylonian) of *ebusu* (Kal), "one has accomplished."

Special details will be found under the head of each conjugation.

Quadriliterals are rare in Assyrian. Unlike the Arabic, they have the same conjugations as triliteral verbs, with the exception of a Pael, viz. (1) Kal, or Palel, e.g. Aorist *iškhupar* ("he overwhelmed"), present *ipalcit* ("he comes over"); (1*a*.) Iphtalel, e.g. *yuptalcit*; (2) Saphalel, e.g. *yuspalcit*; (2*a*.) Istaphalel, e.g. *yustapalcit*; (3) Niphalel, e.g. *ippalcit*, present *ippalcat*; (3*a*) Ittaphalel, e.g. *ittapalcit*, present *ittapalcat*; (4) Iphalalla or Niphalella, e.g. *ipparsiddu* ("they fled"), and *iparsiddu*. These four voices are strikingly analogous to the four Arabic conjugations, *saphalel* taking the place of *taphalala* and *niphalel* of *iphanlala*. An instance of the tertiary conjugation (*t-n*) in a quadriliteral is *ittanaprassidu*, "he has fled to" (*ittanaphalel*). Quadriliterals are mostly found in the Niphalel, and generally the Niphal of triliterals is to be compared with them. With Ittaphalel the Hebrew Nitpael is to be compared, so common in the Rabbinic literature. I have found no instance of the Permansive tense.

The Assyrian verb is rich in tenses. It possesses a Permansive, or Perfect as it is generally called in Semitic grammars, of comparatively rare occurrence in the historic inscriptions, but sufficiently common in the tablets; besides four more other tenses. These have been formed out of the Imperfect or Future of ordinary Semitic grammars. This tense was first divided into two forms, the longer expressing present time, and the shorter having an aoristic sense. Exactly the same phenomenon appears in Æthiopic, and would seem in both languages to have been due to non-Semitic influence.

At all events, Accadian possessed an aorist and a present.
The two tenses thus gained by the Assyrians were still further
modified by attaching a different shade of meaning to the
form which ended with the original short vowel and to the
apocopated form. Thus, *isallim* is a present, *isallimu* has a
future signification. In the case of the aorist this difference
of meaning was not so uniformly observed. Generally
isdhuru has a perfect or pluperfect signification, while *isdhur*
is aorist; sometimes, however, the longer form cannot be
distinguished in sense from the aorist. We thus have the
following tenses :—(1) Permansive, e.g. *sacin* ("he places");
(2) Aorist, *iscun* ("he made"); (3) Perfect or Pluperfect,
iscunu ("he has had made"); (4) Present, *isaccin* ("he makes");
(5) Future, *isaccinu* "he will make"). The Kal present is only
distinguished from the Pael aorist by the person-prefix which
is amalgamated with *u* in the Pael; thus, *isaccin* is Kal
present, *yusaccin* is Pael aorist. As in Pael, the double letter
of the Kal present is frequently dropped; a fault common to
all Semitic writing.[1]

In the remaining conjugations Niphal, Pael, and Shaphel,
the Present is distinguished from the Aorist by containing *a*
instead of *i* in the last syllable : thus, *issacan, issacin;*
yusaccan, yusaccin; yuca'an, yucin (כון); *yusascan, yusascin.*[2]
The name Permansive is due to Dr. Hincks, who thus marks
it off from what he calls the Mutative tenses.

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[1] Very rarely, and only in ungrammatical inscriptions, such as the Law-
tablet, the present takes the form *iraggum*, through the influence of an
unfrequent form of the Pael aorist.

[2] *I* is a weakened *a*, and consequently *a* more fitly marks a continuing
period of time upon which the mind dwells.

Besides the termination in *u*, the Assyrian aorist resembles the Arabic in possessing two other forms at least.   Adopting the Arabic division, we have :

(1.) The Apocopated Aorist, expressing urgency and command, and therefore usually employed in the inscriptions.

(2.) The Telic Aorist, terminating in *u*, denoting the continuance of past time.

(3.) The Aorist of Motion, or Conditional Aorist, terminating in *a*.

(4.) The Paragogic Aorist, expressing energy, terminating in *m* or *mma*.

Besides these, I have detected traces of a termination in *i* —e.g. *yubahī*, "it had sought," *amdakhitsi* as a variant of *amdakhits* ("I fought"), *uracsi* ("I reached"), *usarrikhi* ("I consecrated") in Babylonian.   The same termination is pre-supposed by *imma*, which is found (though rarely) by the side of *umma* and *amma*.   This termination would seem properly to have been used when the idea expressed in the sentence was subordinate to what went before.

These flexions are identical with those of the noun.[1]

The Apocopated Aorist, from its aptitude to denote vigour, like the Jussive in Arabic and Hebrew, has become the common form in Assyrian, as in Phœnician, Hebrew, Aramaic, and Æthiopic.   Not but that all the forms given above, with the exception of that in -*i* (which has been altogether lost in Arabic), are frequently found.

The principal form in -*u*, answering to the nominative of the noun, so conspicuous in Arabic, has acquired in Assyrian

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[1] As in the noun, *i* is weakened from both *a* and *u*, which would, therefore, be the primary terminations.

for the most part a telic sense, *i.e.* it generally denotes a perfect or pluperfect action. In those persons which end in a vowel, the original termination in *n*, otherwise lost in Assyrian, is preserved, the vowel being attached. This is in a few rare cases *ŭ*, though *i* generally takes its place, *a* not being met with. The prevalence of *i* is to be explained partly by the fact that the additional vowel is mostly found in relative and subordinate sentences, partly by the influence of *ni*, the conditional enclitic. The final syllable of the person-ending was long; hence we often find *yusaldidu'uni* written for *yusaldidūni*. When followed by the enclitic conjunction, the accent was thrown upon the final *i*, which, accordingly, generally has the consonant after it doubled: thus, *ikhdhŭniv-va* for *ikhdhŭni-va*.

The aorist of motion answers to the accusative of nouns, and hence signifies motion towards a place. Both have in Assyrian the vowel *a*, which corresponds to the termination of the Hebrew Cohortative in the verb and the local case in the noun, long recognized as a relic of the old Semitic accusative.

The long הָ‍ָ originates in the primitive mimmation (*amma*, *am*, Arabic, *anna*, *an*), just as in Arabic *yactulănna* or *yactulăn* becomes *yactulā* in pause. Assyrian, when it drops the mimmation, preserves the original short quantity of the vowel. While in Assyrian the aorist in -*a* very frequently signifies motion (e.g. *aslula*, "I carried off"), in many instances it denotes a purely quiescent state (e.g. *ebusa*, "he made"); but in this case it either stands in a conditional sentence or has its object following it, so that the action of the verb is moved forward to the noun. I have not found it

used as a cohortative, a sense which arises from the idea of
motion in urging oneself or another forward to do a thing,
and implies a continuance of the action desired by putting it
into effect. When it stands in a relative sentence it exactly
corresponds to the Arabic subjunctive, a use of the form
originating in the conception of limitation implied in the
termination (as in the accusative of the noun)—the action
having proceeded to a certain point and no further,—from
which also arises the idea of motion. The accusative is the
object to which the mind travels. Hence it is expressed by
the broad vowel *a*.[1]

The Paragogic or Energic aorist is merely that in which
the attached vowels retain the primitive mimmation, once
possessed by all noun-cases, and which has become a nunna-
tion in Arabic. The final *ma* is generally the enclitic con-
junction ׀, in which *v* has been changed into *m* on account of
the preceding *m* (see p. 28).[2] Thus we have *abnuv* or *abnum*
("I built"), *iddinūnum* ("they have given"), *isrucunimma*
("they have presented and"), *usetsamma* ("I brought forth
and"), *uselamma* ("I brought up and").

The Moods, excluding the Indicative, are four in number:
(1) Precative, (2) Subjunctive, (3) Imperative, and (4) Infini-
tive, though the latter would better be described as a verbal
noun.

(1) The Precative is formed from the aorist, as in Arabic

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[1] We have to distinguish the enclitic *a* for *va*, "and," from this tense-
ending. Final *u* coalesces with the *a;* thus *aslulā* for *aslulu-a* (*aslulwa*)
"they carried off." The augment of motion is found also with the
Present (especially when used cohortatively), as well as with the Impera-
tive and Precative (see below). So, too, the mimmation.

[2] In classical Assyrian this final *ma* is always the enclitic conjunction.

and Aramæan, by means of the prefix *li* or *lu*. So, too, Æthiopic often prefixes *lă* to the shorter form of the Imperfect in the same sense. In Assyrian, when the first letter of the verb is a vowel, *lu* is used; *a*, *u*, or *yu* are absorbed by the *u* of the prefix which is lengthened: if, however, the first letter be *i*, *lu-i* is contracted into *lī*, which becomes *lē* before *e*. This *lu* must be distinguished from the particle *lū*, denoting past time (like *kad* in Arabic, or *sma* in Sanskrit), which never amalgamates with the verb. Dr. Oppert points out its connexion with the ל of the Talmud and the Aramaic (as in the forms in Daniel להוא and להון).[1] The Precative is confined to the first and third persons, the Imperative being used for the second; but it is chiefly found in the third. Examples are *lubludh* (joined with *anacu*), *lucsud* ("may I obtain"), *lusba-'a* (with the augment of motion added) and *lusbim* ("may I be satisfied with"), *lurabbis* ("may he enlarge"), *lutir* ("may he restore"), *lirur* ("may he curse"), *libi'elu* ("may they rule over"), *liscunu*, ("may they place"). Irregularly it was even used in later times with the second person: thus Nebuchadnezzar has *lutippis* ("mayest thou make"). The same form is used for the masculine and feminine of the third person. The subjunctive enclitic *-ni* may be attached to the Precative; e.g. *lissū-ni*, "may they carry away" (in a quotation).

(2) The Subjunctive is hardly to be called a distinct mood. It is formed by the subjunctive enclitic *ni* added either to the Perfect or to the Permansive, e.g. *utsbacuni*. In some cases the enclitic cannot be distinguished in form from the fuller plural

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[1] This ל, however, may represent the ן of the Aramaic third person of the verb.

termination of the aorist: generally, however, an accusative
pronoun is inserted between the verb and the enclitic, e.g.
abilu-sina-ni ("I have possessed them"), *ikabu-su-ni* ("he
calls it"). The enclitic is used after the relative or such
particles as *ci*. A common idiom is to use this enclitic with-
out *ci*, followed by *va* ("and") and an aorist (not unlike the
use of *waw consecutivum*); e.g. *itsbatūniv-va emuru*, "when
they had taken, they saw" (where the first *v* does not
represent the mimmation, but points out that *i* has the
accent thrown back by *va*). *Ni* must be compared with
the Æthiopic enclitic *nă* added to *'sca*, "until," shortened
probably from *nē*, which is attached to the accusative of
motion. Both probably go back to *nā* (as in *nāhu, nawā*),
Arabic *anna*, Hebrew נָא . Compare Assyrian *eninna*,
"again" (?).

(3) The Imperative is confined to the second person, the
second person singular feminine ending in -*i*, the second person
plural masculine in -*ū* long, feminine -*ā*. The subjunctive
augment of motion is sometimes attached to the second person
singular masculine, e.g. *sullimă* (pael), "complete." It would
be more true to say that the final *a* was the primitive form
which was afterwards contracted, the object-vowel (*ă*) being
used rather than the subject-vowel (*ŭ*), as in Arabic, because
the action passed on from the speaker to the object. The
length of the final vowels in the plural is sometimes denoted
by otiose characters, as in Arabic : thus, *salkhu'u-su* for
salkhū-su, "do ye extend it." In Shaphel, the imperative is
always formed as if from Aphel : e.g. *suscin* for *sususcin*, as
in Hebrew *hactêl* for *hehactêl*.

The Energic Augment may be used (especially in Baby-

Ionian), with both the imperative and the precative, e.g. *suri-himam*, "cause to be exalted;" *lusbim*, "may he be sated with," besides *lusbiam*, which combines (like *surihimam*) the Conditional and Energic Augments.

(4) The Infinitive is a verbal substantive, and as such may take the feminine termination. It would be better called, as in Arabic, a *nomen verbi;* and as such will be considered further on.

The participle prefixes *mu* in all conjugations except Kal, and the Pael of concave verbs, as in the other Semitic tongues. This *mu* is the pronoun *ma, mi, manu,* etc., as Ewald has pointed out. Assyrian here agrees with Arabic, as well as really with Hebrew and Aramaic, in which *shewa* is equiva- lent to the short *ŭ* of the other more conservative languages : Æthiopic alone has retained the original *a*.

THE PERSONS.

As in the other Semitic languages, a distinction is made in the attachment of the person-suffixes in the Permansive and the Aorist. The Permansive is conjugated as follows :—

SINGULAR.		DUAL.	PLURAL.	
1 m. and f.	tsabtacu, tsabtaca, tsabtaq	3 f. tsabtā.	1 m. and f.	[tsabitni]
2 m.	[tsabtita]	3 m. [tsabtā]	2 m.	[tsabittunu]
2 f.	[tsabtiti]		2 f.	[tsabittina]
3 m.	tsabit		3 m.	tsabtu
3 f.	tsabtat		3 f.	tsabtă

I have taken the greater part of the above from Dr. Hincks. The form of the second singular is restored from the forms of the pronoun in Assyrian, *atta* and *atti*.

The Aorist is conjugated thus :—

SINGULAR.		DUAL.		PLURAL.	
1 m. and f.	asdhur	2 m. and f.	[tasdhurā]	1 m. and f.	nisdhur
2 m.	tasdhur	3 m.	isdhurā	2 m.	tasdhuru
2 f.	tasdhuri	3 f.	isdhurā	2 f.	tasdhura
3 m.	isdhur			3 m.	isdhuru
3 f.	tasdhur			3 f.	isdhură

The Present will be :—

SINGULAR.		DUAL.	
1 m. and f.	asaccin, asaccan, asacin	2 m. and f.	[tasaccinā, tasacnā]
2 m.	tasaccin, tasaccan	3 m. and f.	isaccinā, isacnā
2 f.	tasaccini, tasaccani, tasacni		
3 m.	isaccin, isaccan, isacin		
3 f.	tasaccin, tasaccan, tasacin		

PLURAL.			
1 m. and f.	nisaccin, etc.	3 m.	isaccinu, isacnu
2 m.	tasaccinu	3 f.	isaccină, isacnă
2 f.	tasaccina, tasacna		

In the Perfect and Future we have to add *u* to such persons as terminate in a consonant, and *ni* or *nu* to those that terminate in a vowel.

The dual is very rare : as in modern Arabic, it has almost disappeared from the verb. We find, however, *basaʻā uznā-su,* "his ears always exist," *icsudā katā-su,* "his hands possessed" (with a variant *icsudu*).

The first person of the Permansive is identical in form with the Æthiopic, and refers us to the original form of the first personal pronoun. As in the case of the affixed pronoun *su,* the final *u* may be dropped : this seems almost always to happen in the Babylonian and Achæmenian inscriptions. The form in *a* corresponds with the aorist subjunctive, being used in relative sentences, e.g. *sa anacu tsibāca,* "what I wish."

In the third plural (and dual) the short *ĭ* has been dropped, as will be seen is often the case.

In the Aorist, *u* following or preceding causes the distinctive *a* to disappear: the first person singular of the Pael is *usaddhir*.

The person-endings in the Permansive are attached to the root as in the Aryan languages; *tsabacu* exactly corresponds to *ad-mi*. In order to distinguish the two tenses, as the Semites did not possess the Aryan machinery of augments, the pronouns were divided in the aorist, the characteristic letter being prefixed, and the rest of the word affixed. *At* (in *atta* and *attin*) was shortened into *t*, *-i* and *-in* being affixed. The *a* of the first person is either the last relic of the ancient guttural *ac* (? from *ăcăt*) or the pronoun which appears in *yati*. The third person in the aorist seems to have employed a different pronoun from that in common use among the Semitic nations. In the Permansive it is merely the abstract participle, with the feminine termination attached to the feminine (*a* in the plural standing for *an*(*u*); see below). In the Aorist the pronoun seems to be that preserved in the Æthiopic *wĕtu*, *yĕti*, which cannot be derived from *huwa*, *hiya*, by dropping the first syllable, as this is the all-important one, and the Semitic languages in abbreviations dropped the final, never the initial, syllable.

In the preceding it will be seen that I have followed the views of Dr. Hincks in the main, rather than those of Dr. Oppert. The researches of the latter into the Assyrian verb have been vitiated by a refusal to perceive minor differences, and by a pre-conceived theory deduced from the *general* usage of the historical inscriptions. Dr. Oppert, in the second

edition of his Grammar, still denies the existence of a Permansive, a Present (which he confuses with Pael), and of a Future or Perfect (which he considers to be interchanged indiscriminately with the shorter forms); while he ignores several facts of importance, such as the existence of a dual, the use of the aorist subjunctive, and the passives. As he has brought forward arguments against the existence of a Permansive tense in Assyrian (now admitted by Mr. Norris and Mr. G. Smith), it will be necessary to show that such really does exist in the inscriptions.

Dr. Oppert seems to admit that *cullu*, "they are holding," and *nasu'u*, "they are carrying," in the Achæmenian inscriptions—to which he might have added *bitlukhu*, "he has been worshipping," *saldhac*, "I am ruling," *tsibāca* and *tsummukhu*—are true perfects; but he objects that the texts in which they are formed belong to a corrupt period of the Assyrian language, and that the forms, therefore, are to be classed with other (Aramaising) peculiarities of the Persian period. The cases, however, are not quite parallel. One, the Permansive, is part of the original stock of the Semitic family of speech; the others are words which could easily have been borrowed from neighbours. How could a people which did not possess the Semitic Perfect ever feel the want of such a tense? Even Semitic scholars find it hard to grasp its fundamental idea. Moreover, forms identical with those just cited, and necessarily construed as finite verbs, are to be found in the older texts. Against the sentence quoted by Dr. Hincks, *epir sepi-sunu . . . pān samie rapsuti catim*, "the dust of their feet . . . the face of the whole heaven is concealing," Dr. Oppert urges that the sentence is not completed

here, *illamu-a* being added. But *illamu* is a preposition,
"before"; and the case governed by *catim* is *pan*. So that
Dr. Hincks's argument still holds good; were *catim* a parti-
ciple (in that case, by the way, it ought to be *catimu*), it
"would stand before what it governs, and would require a
verb to complete the sentence." But another instance may
be brought forward in which the permansive is absolutely
the last word in the sentence. This is *balti uśśu pulukhti
melamme sarruti itati-su śakhrā-va*, "the strong power of
reverence, the fear of royalty, surround its walls; and." This
sentence is complete in itself, and, according to Dr. Oppert,
the verb ought to be in the aorist. Another instance quoted
by Dr. Hincks from Sennacherib is *tebuni gibsu(t)-śun urukh
Accadi itsbatuni-va ana Babila tebuni*, "their forces took the
road to Accad and came on to Babylon;" the verb is בוא.
Dr. Oppert tries to invalidate this by saying that *te* is a
mistake of the engraver for *it*. But the time has not yet
come for us to amend our texts: until we know a good deal
more of Assyrian than what can be gathered from the uniform
phraseology of royal historical inscriptions, we must be con-
tent to take what lies before us, and to believe that the
Assyrian scribes knew a good deal more about their language
than we do.

Moreover, to close all doubt upon the matter, the same
word is found in another passage—*sa pan matti mitkharis ana
epis tukmati tebūni*, "who to the countries in person to make
opposition came on," and Assur-bani-pal's texts have *tebacu*,
"I am coming" (S.H.F., 124). The same remarks apply to
Dr. Oppert's statement that *tsabtu* (which can only be a verb)
is a mistake for *itstsabtu*, "which is often found in the same

phrase." But we can match the permansive *tsabtu* with numberless instances. Thus we have *sa ina lanni-sunu ina carbi-su camu'u*, " (the youths) who in their dwellings within it were associated "; *arakh il libni nabu'u sum-su*, "the month of the god of bricks they call its name" (Sivan); *sa ilu ana sarrutiv eri curu zicir-sun*, "whose fame the god hath called to the sovereignty of the city "; *sa la citnusu ana niri*, " who were not submissive to my yoke "; *tsir sukti Nipur . . . . subat-sun sitcunat-va*, " upon the covers of Nipur . . . . their abode was situated, and ;" *cima selut . . . . ana same zikipta sacnu*, " like rocks . . . to the sky pointed they stood "; *cirkhu-su cima uba'an sade sacin*, "its head like the top of a mountain was standing"; *cima zikip samdhu*, "like a stake they pierced "; *cima zikip . . . nādi*, "they a stake . . . they were situated "; *tsalui . . . sakis nanzuzu*, "images . . . on high were fixed"; *racibu-sin dicu*, "their charioteers were slain "; *sa cima khirate tsabruni*, "which like women (men) collect "; *nummuru bukhar-sun*, " their excellency was seen "; *sa latbusa*, " which were covered "; *mala basu'u*, " as many as exist"; *sa nubalu-su . . . subaruru*, " who drives away his enemies "; *sa . . . sursudu*, "which was erected"; " *sa sutabulu cirib-sa*, " which had been carried within it "; *sa . . . sukuru*, " which were appointed by proclamation "; *sa . . . suluca-va . . . nisi . . . la ida'a*, " which were made to go and . . . men . . . did not know of "; *tūlu-sa ul ipsi sabat-sa tsukhkhurat*, "its mound was not, its site was small"; *eli sade-sunu martsuti daglu*, " to their rugged mountains they trusted "; *Tarkū . . . inacidu-va attu-ni asaba-ni minu*, "Tirhakah will be unfortunate and (men) measure out our habitation to us." In most of these cases the perman-

sive is joined with an aorist and follows its case, so that it can no more be a participle (as Dr. Oppert would have us believe) than any perfect in the Bible. Besides, were the permansives above-given participles, we should require *tsalui nanzuzi* instead of *nanzuzu*, or *sa la citnusi* instead of *citnusu*. *Tsukkhurat* and *suluca*, again, would have the prefix *mu*. But, says Dr. Oppert, "the other Permansive forms of Hincks are either participles like *musarbu* or infinitives *sitkunat, suḥḥurat,* etc." Dr. Hincks however, in the first place, never called *musarbu* a Permansive; and, in the second place, the examples given above are sufficient to show that the words instanced are not infinitives. This will be made still plainer by the following sentence from Sennacherib's cylinder: *rucubi adi kurrai-sina sa ina kitrub takhazi danni racibu-sin dicu-ma va sina mussura-va ramanu-ssun ittanallaca,* "the chariots with their horses whose charioteers in the meeting of mighty battle were killed there; then they (feminine) were abandoned and the men themselves went away." Here *mussura* and *ittanallaca* are on exactly the same footing; if one is an infinitive, the other must be so likewise. So, again, in a relative sentence like *abnu . . . sa . . . nuśśuku*, "the stone . . . which . . . climbed up," an infinitive is out of the question; and the same will apply to the phrases quoted above. The astronomical reports prove the same thing: in which the only verbs that occur are, according to this strange theory of Dr. Oppert, in the infinitive mood! Thus we have *yumu VI. arakhi Nisanni yumu va musi sitkulu,* "the sixth day of Nisan, day and night are balancing one another."

The last argument of Dr. Oppert is directed against the

first person singular of the Permansive: and this is a form which it is difficult to explain away. Accordingly, he asserts that *sarracu*, "I am king"; *zicaracu*, "I am a male," etc., are substantives, with *cu* for *anacu* affixed (!), while *utsba-cu(ni)*, *saldhaq*, and *tsibaca* are to be read *yutsbacuni*, *saldha epus*, and *tsiba ieris*. Now the first explanation either means that *sarracu*, etc., are first persons of a Permansive tense, or else introduces an altogether non-Semitic grammatical form. In the latter case we must prefer an explanation which accords with Semitic grammar to one which contravenes its principles. A permansive first person of the form *sarracu* is in accordance with the rules of Semitic grammar; a substantive with a Separate Pronoun-affix cannot be paralleled among the cognate languages. Moreover, the bilingual tablets translate Accadian *verbs*, not substantives, by this form; e.g. *mun-lu* is rendered *tsabtacu*, "I am taking," *mu-s-tugdu* by *khasacu*, "I am honouring." If, however, Dr. Oppert does not wish to introduce a non-Semitic conception, then he is merely using an inaccurate expression to denote the Permansive. No one will deny that in the Æthiopic *gabarcu* the pronoun-affix appears: but equally no one will deny that *gabarcu* is the first singular of the Preterite. The Assyrian, like all other Semitic tongues, employs a different pronoun-affix for substantives, and attaches to the compound an altogether different sense from that which *tsabtacu* bears. If Assyrian be Semitic, it must be interpreted in accordance with the genius of Semitic speech. *Tsabtacu* could by no possibility be a substantive. That would require *tsabituya* or *tsabtuya*, and would have to be translated "my capturer." Next as regards the explanation of the three last words

instanced by Dr. Oppert. Two obvious rules for every decipherer are—(1) not to assume ideographs in the text unnecessarily, and (2) to explain in the same way similar forms with similar significations. This will dispose of the monstrosities *saldha epus* (for *saldhaq*, "I am ruling," Persian *patiyakhshiya*) and *tsiba ieris* for *tsiba'aca*, together with many like words, e.g. *pitlukhaq*, "I am worshipping"; *bitugaq*, "I am working at"; *cainaq*, "I am stedfast"; *badhlaq*, "I am failing"; for which I suppose Dr. Oppert would adopt the same desperate explanation. Dr. Oppert seems to imagine that these first person Permansive forms are exceptional. Even in the historical inscriptions, how-ever, this is not the case; and certain tablets, such as those containing prayers, regularly present them; e.g. *puputa rabacu acala dabsacu*, "crops I increase, corn I mature" (where neither form nor syntax allow *rabacu* to be called a substantive); *cinacu cī makhalti*, "I am strong as a fortress"; *tsammiracu cī atani*, "I rejoice like a wild ass (?)"; *sarraku*, "I am king," where the change of guttural implies that the form had become so well established as to obliterate the recollection of its origin. The examples just given are found side by side with *ridā isu*, "I have a servant," and *anacu napāsa*, *anacu nutsbaza*. However possible it may be to imagine a substantive in such intransitive verbs as *sarracu*, *zicaracu*, this is altogether out of the question with *rabacu* and *dabsacu*. These two words alone would be sufficient to establish a Permansive tense in Assyrian. As for *utsbacuni* ("I am stopping," with the subjunctive enclitic after *ci*; in other instances, where *ci* is wanting, *utsbacu* alone occurs), Dr. Hincks has already set aside Dr. Oppert's *yutsbacuni*.

It is an impossible form, which cannot be matched in Assyrian. "*Iṣbakuni*' would be legitimate; and so would *iṣabkuni*, or with *ṣt* or *ṣṣ* in the place of *ṣ*; *yuṣabkuni* might pass also for conjugation III. [Pael]; but the substitution of *yu* for *i* before *ṣb*—such a form as *yupgaluni*—is unparalleled." And lastly, if the above arguments were not sufficient, the bilingual tablets conclusively settle the whole matter. Here, for example, we have a sentence which runs in Assyrian *daltu va ṣicuru cunnu*, "the door and the porch are founded," where *cunnu* (third plural Palel) answers to the Accadian *ib-tan-gubbu-ṣ*, "they caused to be fixed" (third plural aorist causative). Another passage, in an inscription of Nebuchadnezzar (W. A. I., 54, 3, 19), affords an example of the Permansive used with the pronoun-suffix of the verb, and the infinitive and preposition: *ana ebiṣu Bit-Ili naṣa-nni libb-i*, "to the building of Bit-Ili my heart urges me." Here the participle must have had *ya* (*naṣu-a* or *naṣ-ya*), not *-ni*. These two instances by themselves are sufficient to disprove the opinion of Dr. Oppert, who seems to have forgotten that *in its origin* the Perfect (or Permansive) of the Semitic languages was nothing more than the participle, and that the arguments brought against its form in Assyrian apply equally well to Hebrew or Æthiopic.

As regards the confusion made by Dr. Oppert between Pael and the present of Kal,—a tense whose existence he denies,—no arguments have been brought forward against Dr. Hincks. An appeal can only be made to the inscriptions, where a distinction between the two parts of the verb is always maintained. *Iṣaccin* invariably has a present meaning. Dr. Oppert does indeed say that the present of Pael

ought to have the second radical quadrupled. We have to do, however, with matters of fact, not of *à priori* fitness : and the Assyrians conceived that a sufficient distinction was made by a change of vowel. The whole question is set at rest by the bilingual tablets. On the one hand, a careful distinction is made between the aorist and the present Kal, the Accadian aorist being translated by the form *iscun*, the Accadian present by the form *isaccin* (e.g. *in-lal* ("he weighed ")= *iscul, in-lal-e* (" he weighs ")=*isaccal*) : on the other hand, the Pael (with prefixed *u*) is generally set apart for the Accadian intensives, while the present and aorist in Pael itself are accurately noted down (e.g. *in-gin* ("he placed ")= *yucin, in-gin-e* (" he places ")=*yuca'an*). With respect to the *nuances* of meaning in the lengthened forms of the aorist and future, I do not mean to say that the form *isaccinu* contains as clear an idea of future time as the Latin *constituet*. It was set apart to express that conception with a kind of unconscious instinct ; so that in the inscriptions wherever we should speak of future time the form *isaccinu* is almost invariably used. In the case of the perfect the instinct was not so clearly marked : we can only say that in the majority of instances the lengthened form of the aorist represents the perfect or the pluperfect.

Traces of the use of *waw consecutivum* are to be found in Assyrian, though the comparative rarity of the Permansive greatly restricts the use. Thus we have *Sina mussura-va ramanussun ittanallaca.*

Contracted forms.—The Assyrian verb frequently drops a short vowel. Just as in Pael (or other grammatical forms in which one of the radicals is doubled) where the reduplication

of the letter leads to the lengthening of the preceding vowel, like the Arabic third conjugation, an *i* or *ă* is frequently elided. Verbs with ע as second radical, often omit it; e.g. *sibi* by the side of *si-'ebi*. The same happens when ע is third radical before *u* and *a*; thus, *ismu*, "they heard," by the side of *isme'u* and *isma'a*. In verbs ע'א, *a* falls away before *i* with *hemza*, e.g. *ucin, ubi'*. So in verbs which begin with ע, the Assyrian drops this radical after *i*, while the Babylonian transposes the vowels, e.g. *ipsit* and *e'ipsit* (עפשׂ); with *u* as preformative, ע becomes *u* also, and in Assyrian the two letters coalesce (thus *ulla'a*, "I ascend" (עלה), Babylonian *u'ulla'a*; so *utstsib* for *u'utstsib*). The same holds good of פ'י and פ'ה, e.g. *utstsi* for *u'utstsi*, pael of יצא. Verbs פ'ה compensate for the loss of ה by doubling the second radical. In Iphteal the short vowel after the second consonant may be suppressed, when an open syllable, e.g. *tastalmi* for *tastalami*, *listalmu* for *listalamu*, *taptikdi* for *taptikidi*. So, too, in Pael, where the loss of the vowel is accompanied by the loss of the double consonant (thus *tasalmu* for *tasallimu*, *muparca* for *muparrica*). In Iphtaal and Niphal the contractions are frequent; e.g. *ittalcu* for *ittallicu*, *istacnu* for *istaccanu*; *ippatkū* for *ippattikū*, *innabtav* for *innabitav*, *lissacna* for *lissacina*. In Shaphel they are rare, chiefly occurring when the first radical is a 'sibilant, as *usziz* or *ulziz* for *usaziz*, "he caused to fix"; but we also find *yusdhibbu* for *yusadhibbu*.[1]

Shaphel is chiefly distinguished by ellipse of the characteristic consonant. Just as this has become ה in Hebrew (as

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[1] This, however, may be Shaphael, as the Assyrians possessed a root טבה by the side of טוב.

in the case of the third personal pronoun), and *a* in Arabic, Aramaic, and Æthiopic, so in Assyrian has *us* become first *uh* and then *u* in the concave verbs. Another assimilation of consonants takes place in Iphteal (and Iphtaal). When the first radical is *d*, *ts*, *z*, or *ś*, the characteristic *t* is assimilated to these letters; thus we have *itstsabat* for *itstabat, izzacar* for *iztacar*. Sometimes even *s* changes the *t* into *ś*; e.g. *iśśacan* for *istacan, aśśarap* and even *aśarap* for *astarap*.[1] So in Arabic *t* is assimilated with *d*, *ḍ*, *z*, *ś*, *ts*, *dh*, *ḍh*, as first radical. In Niphal and verbs פ׳נ *n* is regularly assimilated to the following letter (as in Hebrew, etc.), e.g. *iddin, ippakid, lissacin, tabbanu, tadani* for *taddani*. The assimilation, however, is not always observed. If the first radical cannot be doubled, the characteristic letter is elided; in the Achæmenian period, however, the second radical was doubled, as *ibbus* (quoted by Dr. Oppert from Nakhsh-i-Rustam; see below).

After gutturals and nasals *t* may be changed into ט or ד, as *ikdharib, ikdhabi, igdamar, nimdagar, amdakhits* by the side of *amtakhits* (probably read *antakhits*).

THE STRONG VERB.

Kal.—I shall give the forms of the Permansive (where this is possible), the Present, and the Apocopated Aorist. The longer forms can be supplied from these in accordance with the rules already given.

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[1] In these cases the *t* has been transposed (as in Hebrew, Arabic, etc., or in Assyrian defective verbs), and *ts* regularly becomes *ś* (see p. 32). The assimilation is common in Æthiopic (e.g. *yĕssabar* for *yĕtsabar*). Compare Arabic *yatstsarra'ûna* for *yatatsarra'ûna*. For the Hebrew see Is. i. 16; Eccl. vii. 16, etc.

Verbs in Kal are either transitive or intransitive. The majority of those found in the inscriptions are transitive. As in Arabic (also in Hebrew and Aramaic), the second radical takes either one of the three primary vowels in the aorist. By far the largest majority of verbs have *u* (which has been confined to intransitives in Arabic).

Among those which take *i* are found *bi'elu, gadaru, dagalu, khalaku, casaru, casapu, cataru, nacaśu, śacaru, śanaku, eribu, ezibu, ekhiru, ecimu, enisu, etiku, padharu, pakadu, basamu, pataku, tsanaku, rakhatsu, ratsapu, subalu, sam'e'u.*

Verbs in *i*, like those in *u*, are either transitive or intransitive (so with *i* in Arabic). Among verbs in *a* are *canadu, lamadu, makhatsu, makharu* ("to receive"), *palakhu, pasakhu, tsabatu, racabu, razabu, tab'e'u* : mostly transitives (*a* denoting the passing-on of the action).

Many verbs admit both forms; e.g. *itsbut* and *itsbat, epus* and *epis.*

The first person singular of the aorist is often formed in Babylonian by *e*, especially when the vowel of the second radical is *i*; e.g. *eśnik, escir.* The same was the case in vulgar Assyrian.

Verbs אפ also in Assyrian might undergo the same change: thus we find both *acul* and *ecul,* "I ate." Comp. *ekdhol, ekkdtél* in Hebrew, and see p. 33.

The first person plural is always *ni-*, except where the singular has *u*, when *nu* is used (e.g. *nubahi,* "we sought," in the Aphel).

The typical form of the infinitive is regarded in the tablets as *casadu.* Verbs עפ substituted *i* after the second radical, and dropped the *a* of the first. The *nomina verbi,* however,

will be considered hereafter, as well as the participles. In verbs פ״ע, the *a* of the first radical in the present Participle is dropped; thus, *ebisu* by the side of *cāsidu*.

PERMANSIVE.	PRESENT.		AORIST.	
SINGULAR.				
1. sacnacu (sacnaq)	asaccin	ascun	arkhits	atsbat
2 m. sacinta	tasaccin	tascun	tarkhits	tatsbat
2 f. sacinti	tasaccini	tascuni	tarkhitsi	tatsbati
3 m. sacin	isaccin	iscun	irkhits	itsbat
3 f. sacnat	tasaccin	tascun	tarkhits	tatsbat
PLURAL.				
1. sacinni	nisaccin	niscun	nirkhits	nitsbat
2 m. sacintunu	tasaccinu	tascunu	tarkhitsu	tatsbatu
2 f. sacintina	tasaccina	tascuna	tarkhitsa	tatsbata
3 m. sacnu	isaccinu	iscunu	irkhitsu	itsbatu
3 f. sacna	isaccina	iscuna	irkhitsa	itsbata
DUAL.				
3. sacnā	isaccinā	iscunā	irkhitsā	itsbatā

The same verb sometimes takes indifferently more than one vowel after the second radical in the aorist, as *acsud* and *acsid*. Occasionally the difference of vowels distinguishes two separate verbs; e.g. *amkhar*, "I received," and *amkhur*, "I increased."

In the later inscriptions a feminine nominative is now and then used improperly with a masculine verb. Thus, Assur-bani-pal has *ikbi'* and *yusapri'* (for *takbi'* and *tusapri'*) with Istar. So in the law-tablet the Assyrian translator has used *izir* and *iktabi'* with *assatu*, "woman" (as well as *su* for *sa*, like הוֹא and נַעַר in the Pentateuch). The same is the case in the Assyrian text of the legend of Sargon (W.A.I. iii. 4, 7). In the earliest inscriptions even the

feminine of the third person of the Precative is lost.   So
in Amharic the feminine second and third plural have been
lost.

IMPERATIVE.

SINGULAR.

2 m. sucun;   rikhits ;   tsabat
2 f. sucini, sucni; rikhitsi, rikhtsi ; tsabti

PLURAL.

2 m. sucinu, sucnu; rikhitsu, rikhtsu ; tsabtu
2 f. sucina, sucna; rikhitsa, rikhtsa ; tsabta

PRECATIVE.

SINGULAR.

1.   luscun;   lurkhits;   lutsbat
2 m.   lutascun; lutarkhits; lutatsbat
3 m. and f. liscun;   lirkhits;   litsbat

PLURAL.

3 m. liscunu; lirkhitsu ; litsbatu
3 f. liscuna; lirkhitsa ; litsbata

The first person singular of the Precative stands for *lŭ-
ăscun*.   The second feminine singular would be, according to
analogy, *lutăscuni, lutarkhitsi, lutatsbati*; the second plural
would be *lutascunu* (masculine), *lutascuna* (feminine), etc.

Both the Imperative and the Precative may take the aug-
ment of motion (*a*).   In this case *sucun, rikhits,* and *tsabat*
are generally contracted into *sucna, rikhtsa,* and *tsabta.*

Iphteal.—This conjugation is formed from Kal by the in-
sertion of *t* after the first radical (as in the Arabic eighth con-
jugation), except in concave verbs, where it precedes the first
radical; e.g. *itbuni, tebācu* (as in Hebrew, Aramaic, Æthio-
pic, and the fifth and sixth conjugations in Arabic).[1]   The

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[1] So, too, in the Aramaising form, *itliccan,* "they went," at Behistun,
for the regular *ittalieu,* contracted *itlicu,* in the conditional *itlicāni,* with
the subjunctive enclitic added.

secondary conjugations formed by the insertion of *t* have an intensive force, and are for the most part intransitive. This arises out of the originally reflexive sense imparted by *t*. Its origin is to be sought in the pronominal root, pronounced with the dental, which has given rise to the characteristic of the feminine in the verb and the noun, as well as to the second personal pronoun. For the changes of letters see above, p. 71.

The Present and Aorist are distinguished, as in the Kal of concave verbs, by a difference of vowel in the last syllable: the aorist is *imtakhits* or *izzazuz* (for *iztazuz*), the present *istaccan* or *istacan*. The latter is distinguished from Iphtaal only by wanting the preformative *u*.

Verbs which have *i* in the aorist of Kal generally assimilate the vowel of *t* to that of the last syllable in the aorist; e.g. *iptikid* for *iptakid*. In verbs with 𒐊 for first radical *t* is followed by *e*; e.g. *etebir*, "he crossed." *Te* is sometimes wrongly expressed by *ti* and even *ta*. Another peculiarity of these verbs is that the second radical is sometimes doubled in the aorist, Iphteal being confused with Iphtaal through the presence of the *e*: e.g. present *etappas*, aorist *etibbus* and *etebus*, *etettika* (elsewhere *etattik*). Two verbs, *episu* and *eribu*, always have *u* in the aorist, *etebus* and *eterub* or *etarub*. If the last radical is increased by any addition, the vowel of the second radical is usually dropped, even in the present, where the double letter is thus lost; e.g. *etarba* for *etarraba*, "I am going down," *itstsabtu* for *itstabitu*, *tastacnu* for *tastaccanu*, *listalma* for *listalama*.

The tendency to nasalization which appears in the mimmation (rarely, in later inscriptions, changed to a nunnation,

as in Assur-bani-pal, where for *in cirib Ninā illikam-ma yusanna'a* we have a variant *illikan-ma*), or in the plural ending in *an*, has given rise to a lengthened form of the inserted *t*, viz. *tan*. Hence we get the present *attanakhkhar*, *ittanakhar* or *imdanakhar*, "he receives," *tattanakhkhar*, *ittanallac*, *itanarrar*, *iššanakhkhar* (for *ištanakhkhar*), *išanammā* (for *istanammā*), *iktanarrab*, *iltanappar* and *istanappar*, *ikhtanabbata* (with the subjunctive augment), in the aorist *imtanallic*, *tattanigir*, *ittanassi*, *ikdhanabbi*. Where Iphteal has *te* (*ti*), Iphtaneal has *ten*, e.g. (in Babylonian) *erteniddi*. The form in *tan* seems to have been a vulgarism, and is chiefly met with in and after the time of Sargon.

The common verb *atnimmus*, "I departed," is well explained by Dr. Oppert (who wrongly reads it *atnummus*) as an Iphtaneal, standing for *atanimmus*. Another verb of the same signification is *attušir*, an Ittaphal, with *u* for *a*, according to the rules of verbs פ״נ.

For letter-changes see p. 71.

PERMANSIVE.	PRESENT.	AORIST.	
	SINGULAR.		
1. kitnusac (kitnusacu)	astaccan, astacan, altacan	astacin, altacin ;	aptikid
2 m. [kitnusta]	tastaccan, etc.	tastacin ;	taptikid
2 f. [kitnusti]	tastaccani	tastacini ;	taptikidi
3 m. kitnus	istaccan	istacin ;	iptikid
3 f. kitnusat	tastaccan	tastacin ;	taptikid
	PLURAL.		
1. [kitnusni]	nistaccan	nistacin ;	niptikid
2 m. [kitnustunu]	tastaccanu	tastacinu ;	taptikidu
2 f. [kitnustina]	tastaccina	tastacina ;	taptikida
3 m. kitnusu	istaccinu	istacinu ;	iptikidu
3 f. kitnusa	istaccina	istacina ;	iptikida

IMPERATIVE.	PRECATIVE.	PARTICIPLE.
	SINGULAR.	
2 m. sitcin	1. lustacan; [luptikid]	
2 f. sitcini	3. listacan; liptikid	mustacanu, multacanu
	PLURAL.	
2 m. sitcinu	3 m. listacanu; liptikidu	muptikudu
2 f. sitcina	3 f. listacana; liptikida	

Niphal.—The Assyrian Niphal agrees exactly with Hebrew, both in form and use. Arabic and Æthiopic have prefixed '*a*. Aramaic employs *eth* instead. Originally reflexive, as in *innabid*, "he fled," both in Hebrew and Assyrian Niphal has become the passive of Kal. The characteristic is probably the pronominal root which we find in the Aramaic *nektul, nektylun,* and which refers us to the demonstrative *annu*, etc. As in Hebrew, *n* regularly assimilates with the first radical. Exceptions, however, occur, chiefly in later times, *e.g.* Achæmenian *indin* for *iddin*.

Verbs פ"ע double the second radical, *e* not admitting reduplication.

PERMANSIVE.	PRESENT.	AORIST.
	SINGULAR.	
1. [nanzuzacu]	assacan	assacin
2 m. [nanzuzta]	tassacan	tassacin
2 f. [nanzuzti]	tassacani	tassacini
3 m. nanzuz	issacan	issacin
3 f. [nanzuzat]	tassacan	tassacin
	PLURAL.	
1. [nanzuzni]	nissacan	nassacin
2 m. [nanzuztunu]	tassacanu	tassacinu
2 f. [nanzuztina]	tassacana	tassacina
3 m. nanzuzu	issacanu	issacinu
3 f. [nanzuza]	issacana	issacina

The forms *nagarrur* and *nasallul* instanced by Dr. Oppert,

do not belong to Niphal, but to Niphael.   Another form of the aorist is *izzanun*.

IMPERATIVE.	PRECATIVE.	PARTICIPLE.
	SINGULAR.	
2 m. nascin	1. lussacin	
2 f. nascini	3. lissacin	mussacinu
	PLURAL.	
2 m. nascinu	3 m. lissacinu, lissacnu	
2 f. nascina	3 f. lissacina, lissacna	

Ittaphal.—This voice is but little used, and chiefly with quadriliterals.

According to Dr. Hincks the Permansive would be *nastecun*.

The Present is *attapalcat;* the Aorist *attapalcit,* for which we once find *ittapalcutu,* and in vulgar Assyrian even *itta-palaccita.*

The Precative is *littasgar;* the Participle *muttascanu.*   Dr. Oppert believes the Imperative to have been *nitasgir.*

Pael.—Pael is distinguished from the Present of Kal by the preformative *u,* answering to Æthiopic *a,* Arabic '*i* (in conjugations 7, 8, 9, 10, etc.).

Pael expresses intensity, and therefore doubles the second radical, giving emphasis to the idea which is longer dwelt upon.   The same machinery produces the present with its idea of extension of time.   The Assyrian form corresponds with Hebrew Piel, Aramaic Pael, Arabic *kattala,* Æthiopic *gabbara.*

From its intensive meaning comes the idea of causation. When Kal is intransitive, Pael becomes transitive.

The reduplication is neglected especially in the more ancient inscriptions.   This is particularly the case, Dr. Oppert

points out, with *kh*, *c*, *r*, and *s*.   The reduplication in labials and dentals is sometimes replaced by a nasalization (as in Aramaic), *e.g.* in the Kal Presents *tanambu* for *tanabbu*, *imandad* for *imaddad*, *inandin* for *inaddin*.

There is no reduplication of *e*, *h*, and *'a*, though it always takes place in *kh* and *r*.

The Present and Aorist are distinguished by *a* and *i* after the second radical, as is stated in a grammatical tablet, where we have *yunaccar* and *yunaccir*, *yusanna* and *yusanni*.

Irregularly (as with Kal Present) *u* takes the place of *i* in the Aorist, as in *yuracum* (like *iraggum*).   As in Iphteal, verbs with *i* in the Kal Aorist may take *i* after the second radical, thus, *yunicim*.

PERMANSIVE.	PRESENT.	AORIST.
	SINGULAR.	
1. karradacu	usaccan	usaccin
2 m. [karradta (karratta)]	tusaccan	tusaccin
2 f. [karradti]	tusaccani, tusacni	tusaccini
3 m. karrad	yusaccan	yusaccin
3 f. karradat	tusaccan	tusaccin
	PLURAL.	
1. [karradni]	nusaccan	nusaccin
2 m. [karradtunu]	tusaccanu	tusaccinu
2 f. [karradtina]	tusaccana	tusaccina
3 m. karradu	yusaccanu	yusaccinu
3 f. karrada	yusaccana	yusaccina

IMPERATIVE.	PRECATIVE.	PARTICIPLE.
	SINGULAR.	
2 m. succin (sucin), sullima	1. lusaccan	
2 f. succini	3. lusaccan, lusaccin	musaccinu
	PLURAL.	
2 m. succinu	3 m. lusaccanu	
2 f. succina	3 f. lusaccana	

Iphtaal.—Iphtaal is formed from Pael by the insertion of *t*

after the first radical.   Dr. Oppert calls it the middle voice of Pael, strengthening the latter conjugation : thus in Kal *halacu*, "to go," Pael *hallacu*, "to make go," Iphtaal *attallacu*, "to be driven to go," "*ambulare*."

An instance of Iphtaneal is the aorist *ultanpiru* (for *ustanappiru*), as distinguished from the present *ultanapparu*.

As in Iphteal, verbs with *i* in Kal aorist may substitute *te* (*ti*) for *a* after the dental, e.g. *yuptekid*.   The same takes place with verbs 𐤏𐤐; thus, *lutebus*, *lutibbus*.

Neither the Permansive nor the Imperative have been found.

PRESENT.	AORIST.	PRECATIVE.	PARTICIPLE.
	SINGULAR.		
1. ustaccan	ustaccin	1. lustaccan	mustaccinu
2 m. tustaccan	tustaccin	3. lustaccan	
2 f. tustaccani	tustaccini, tustacni		
3 m. yustaccan	yustaccin	[IMPERATIVE. sutcin]	
3 f. tustaccan	tustaccin		
	PLURAL.		
1. nustaccan	nustaccin	3 m. lustaccanu	
2 m. tustaccanu	tustaccinu	3 f. lustaccana	
2 f. tustaccana	tustaccina		
3 m. yustaccanu	yustaccinu		
3 f. yustaccana	yustaccina		

Shaphel.—This is one of the most commonly-used conjugations in Assyrian, and is formed by a prothetic *s*.   Like the Aramaic Shaphel, presupposed in Arabic *istaktala* (conjugation 10) and Æthiopic *ystagabbala*, Hebrew and Phœnician Hiphil, Arabic and Æthiopic *aktala*, Aramaic and Assyrian Aphel, the conjugation has a factitive meaning.   I would refer it to the root which appears in the Arabic *shahā*, "wish," attached to the verb, like *sa* in Arabic (from *saufa*,

"in the end"), which is prefixed to the Imperfect to express futurity. As *s* has become *h* in Hebrew, etc., it must have been initial, so that the peculiarly Hebrew root עשׂה is excluded. A large number of roots in the various Semitic tongues, even in those which, like the Hebrew, have lost nearly every trace of Shaphel, are really Shaphel forms, *e.g.* שׁחר from חר, שׁכן from כון.

In verbs פ׳ע, *a* after the characteristic *s* becomes *e;* e.g. *usebis, useli*. In the later inscriptions this change of consonant is sometimes transferred to the regular verbs, as in *usescin, tuseznin, musecnis ;* just as *a* in Babylonian tends to become *e* (see p. 26) ; and as we get *uptekid*, etc., in Iphtaal and Iphteal.

The vowel of the characteristic may be dropped ; e.g. *ussiz* and even *ulsiz* for *usasiz*.

For the Imperative see p. 58.

The Permansive has not been found. Dr. Hincks restores it as *satcan*.

PRESENT.	AORIST.	IMPERATIVE.	PRECATIVE.	PARTICIPLE.
		SINGULAR.		
1. usascan	usascin		1. lusascin	musascinu
2 m. tusascan	tusascin	2 m. suscin		
2 f. tusascani	tusascini	2 f. suscini		
3 m. yusascan	yusascin			
3 f. tusascan	tusascin		3. lusascan	
		PLURAL.		
1. nusascan	nusascin			
2 m. tusascanu	tusascinu	2 m. suscinu		
2 f. tusascana	tusascina	2 f. suscina		musascinu
3 m. yusascanu	yusascinu		3 m. lusascinu	
3 f. yusascanu	yusascina		3 f. lusascina	

Istaphal.—This conjugation corresponds to Aramaic Ista-

phal, Arabic Tenth conjugation, Æthiopic *ystagabbara*, Hebrew Hithpael, and has a desiderative signification.

Verbs פ״ע have *e* after the dental instead of *a*, e.g. *ultebis*. This is imitated by other verbs in the Babylonian period; e.g. *ultesib* and *usteni'edu*.

The Permansive Dr. Hincks believes would be *satsecan*.

PRESENT.	AORIST.	PARTICIPLE.
	SINGULAR.	
1. ustascan, ultascan etc.	ustascin, ultascin etc.	mustascinu, multascinu

IMPERATIVE.	PRECATIVE.
SINGULAR.	
2 m. sutiscin	1. lustascan
2 f. sutiscini	3. lustascan
PLURAL.	
2 m. sutiscinu	3 m. lustascanu
2 f. sutiscina	3 f. lustascana

After the example of Iphteal, another form of Istaphal, without the preformative *u*, seems to have come into use in the later period of the language. Thus we find in the Achæmenian inscriptions *altabus* (a corrupt form) by the side of *ultebis*, and *istandhakhu* may be another instance from Shalmaneser; but this is rather an Iphtaneal from שטח.

Aphel.—This conjugation is confined, so far as I know, to the concave verbs, and will be treated of under them.

Itaphal.—Dr. Oppert quotes from the syllabaries *itatspur* as an example of this conjugation. The form ought to be *yutatspir*; *itatspur* will stand by the side of *altabus* above; but I should prefer to regard it as standing for the Ittaphal *ittatspur*.

Shaphael.—The same grammatical regularity that distin-

guishes Assyrian among the Semitic languages like Sanskrit among the Aryan languages, producing the secondary conjugations with every voice, has also displayed itself in the Causative conjugation.   Kal and Pael, answering to the aorist and present tenses, were regarded as the primary voices ; to each of these was attached a causative in (*u*)*sa*. Each of the four forms thus obtained had a Passive assigned to it, the Reflexive Niphal being set apart for the Passive of Kal, as otherwise standing outside the regular verbal scheme —and finally all were provided with a secondary conjugation in *t* and *tan*.   Shaphael is rarely found in the strong verb, as *e.g.* in *yusnammir* ; but it frequently takes the place of Shaphel in verbs ל״ה: thus *usdhibbu'*, *usmallu'*, *usrabbi'*. The Permansive may have had the form *sasaccan* ; but it has not been found.

The Present is *usnammar*, the Aorist *usnammir*.

The vowel after *s* is regularly dropped on account of the weight of the following syllable.

The Imperative was probably *susuccin*.   The Participle is *musnammiru*.

Istaphael.—Here we find *yusteni'edi* for Aorist, *ustamalta'* for Present.   The other tenses have not been detected.

The Passives.—I have already given my reasons for not considering forms like *ilubusu* as Passives of Kal, but as examples of a Poel.

As examples of the Passive of Pael, we have for the Permansive *nuśśuku* third plural masculine, *nuśśuka* third plural feminine, *nummuru*, *summukhu*, etc.   In the Present we find *yubullat*, in the Aorist *yubullit*.   Judging from Arabic analogy, there was no Imperative.   I can add nothing to

what I have already said about the Passives of the remaining conjugations. The Passive of Shaphael ought to be *sunummur* or *sunammur* Permansive, *yusnummar* Present, and *yusnummir* Aorist. The Passive is never formed, as in Aramaic, by the dental. A solitary Aramaising form is *itpisu* for *etpisu*, "constituted," and here the dental is inserted after the first radical, while the word is only a *nomen verbi*. Traces of other conjugations, or rather *nomina verbi*, such as *papel*, *pealpel*, etc., will be found (see further on) under the head of the *nomina verbi*.

THE DEFECTIVE VERBS.

Verbs פֿנ.—These verbs follow the example of Niphal, assimilating the nasal when followed by any consonant except *h* or *n*, and the consonant is doubled. Before *n* and the vowels the first radical remains unchanged. *Nn* is never written *n*; thus we never find *inamar* for *innamar*, "it is seen."

The Aorist of Kal takes *u*, *a*, and *i* after the second radical.

Among those that have *u* are *na'amu, nabalu, nagagu, namaru, nasakhu, nasacu, napakhu, napaku, natsaru, nakabu, nakaru*.

Among those that have *i*: *nadanu, nakhatsu, nadhu, nacalu, nacamu, nacasu, nacaru, natsagu, nasagu, nasaku, nasaru*.

Among those that have *a*: *na'aru, naharu, nazalu, nazaru, nakhazu, nadhalu, napalu, natsabu, natsatsu, nakamu*.

The nasal is sometimes irregularly retained, more especially in the Achæmenian period. Thus we have *indin* for *iddin*, *mandattu* and *mandantu* for *maddattu*. It is possible, however, that the *n* was frequently not pronounced, though

written, as in Arabic. Some few verbs always retain the *n*, e.g. *indhur*, as in Hebrew.

Before *b* or *p*, *n*, instead of being elided, may be changed into *m*; thus we find *ambi* and *abbi* ("I called"), *munambu* and *munabbu*. This has had a reflex action; *nabu'u* can replace the reduplication of the second radical by *mb*; e.g. *tanambu, nunambu*.

The Imperative Kal rejects the first radical, as in Hebrew, but replaces it by *u*, *i*, *a*, according to the vowel of the Aorist; thus *ugug, idin, ecil, apal.*

The principal forms are as follows :—

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Kal.	namir	inammir [1]	immur	umur	namiru,namru
Iphteal.	nítmur	ittamar	ittamir	nitmir	muttamiru
Niphal.	nammur	innamar	innamir	nammir	munnamiru, munnamru
Ittaphal.	nattemur	ittammar	ittammir	nitammir	muttamaru
Pael.	nammar	yunammar	yunammir	nummir	munammiru
Iphtaal.	—	yuttammar	yuttammir	—	muttammiru
Shaphel.	sammar	yusammar	yusammir	summir	musammiru
Istaphal.	satnemar	yustammar	yustammir	suttimmir	mustammiru
Shaphael.	sanammar	yusnammar	yusnammir	sunummir	musnammiru
Istapael.	—	yustenammar	yustenammir	—	mustenammiru

		PERMANSIVE.	PRESENT.	AORIST.		
Passive	*Pael.*	nummur	yunummar	yunummir	—	—
	Iphtaal.	yuttumkit	yuttummar	yuttummir	—	—
	Shaphel.	{sunumur / sunamur}	yusummar	yussummir	—	—
	Istaphal.	sutenumur	yustummar	yustummir	—	—
	Shaphael.	{sunummur / sunammur}	yusnummar	yusnummir	—	—

Verbs א׳פ, ה׳פ, ו׳פ, י׳פ.—These verbs have some forms in common. Others are shared in by the last two. In other

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[1] A false analogy with Niphal Present has produced forms like *inaccar*.

forms they all differ from one another. They constitute the
most difficult part of Assyrian grammar; and it is here that
Dr. Oppert and Dr. Hincks are in the most direct opposition.
The following are the results obtainable from the inscriptions.

(1.) Verbs פ״א and פ״ה are identical, save in the third
masculine. Regularly, however, the second radical of verbs
פ״ה is doubled, e.g. *alliq*, *illiq*, for *ahliq* and *ihliq*; but this
doubling is often omitted in writing; thus we find *aliq*, *iliq*,
ipuq. (2.) Verbs פ״א and פ״י are used interchangeably; so
in Hebrew אצב and נצב, etc., the syllabaries equate *namaru*
with *amaru*: hence *umar* (Pael present) comes, not from
mamaru, but from *amaru*. (3.) Verbs פ״א and concave verbs
have certain forms in common; the Pael of verbs פ״א is
often identical with the Aphel of concave verbs, and the Kal
of the latter has the same form as the Kal of the former when
written defectively (without reduplication). (4.) Verbs פ״א
and פ״ע are confounded, especially in the Babylonian period:
thus we have indifferently *acul* and *ecul*, *elih* and *alih* (see
p. 33), so *usesib*. (5.) Verbs פ״א and פ״י are liable to be
confounded; the syllabaries, for instance, give both *aladu* and
uladu. (6.) Verbs פ״י have the same forms in Kal as the
(irregular) Pael of verbs פ״א and the Aphel of concave verbs.
(7.) The Pael of verbs פ״ה and פ״ע is the same; e.g. *u'ulla'a*
and *ulla'a* from עלה, and *u'ullil* and *ullil* from הלל. (8.)
As in Hebrew, verbs פ״י tend to become פ״י; hence *ilittuv*
(*ilidtuv*) by the side of *ulidu*.

It will be seen from this that Dr. Hincks is not right in
asserting that verbs פ״א have no forms in common with
verbs פ״י, which are not also common to verbs פ״י. Neither
is Dr Oppert justified in the belief that Hebrew verbs פ״י

become in Assyrian פ׳א if they correspond to Arabic verbs
in *u*; while if Arabic has *i*, Assyrian has the same. This is
generally the case; but it has many exceptions. Dr. Oppert
has not sufficiently distinguished between verbs פ׳א and verbs
פ׳ה; the first have *ya* in the third person Aorist and Present,
e.g. *yatsab*, "he creates;" the latter have *i* or *ih* with the
second radical doubled. The Aorist Kal in *u*, again (as *ulid*),
comes from a verb פ׳י, not פ׳א. The learned Doctor,
moreover, has confounded verbs פ׳ע and פ׳א; as well as all
these classes of verbs with concave verbs.

The participles *muridu*, *mulidu*, etc., which Dr. Oppert
believes to belong to Kal, are really Pael participles, with
the reduplication omitted, as in *mucinu* for *muccinu*.

Our chief difficulty as regards these verbs lies in the un-
certainty of the first radical. Sometimes this was *a*, some-
times *e* (Babylonian), sometimes *u* : thus two roots were
indifferently employed by the Assyrians, *atsu* and *utsu*. From
the first we have *attatsi* (Ittaphal), from the second *attutsi*.
But *h* and *i* are always carefully distinguished. In Shaphel,
however, the first radical becomes *e*, whether originally *a*,
e, or *i*.

It was only at a comparatively late period that the Semites
came to distinguish between the various forms which a bi-
literal root might take. The servile letters were for the
most part absolutely interchangeable. The sharp divisions of
the Hebrew grammarians are the results of later reflection.
Assyrian has hardly entered upon this discriminating stage :
hence the same biliteral root appears under different forms
which a grammar has to assign to different triliteral stems.
From טב, for instance, we have forms which presuppose

טוב, and טבה; from כן forms which presuppose כנן, כון,
נכן, ואבן, ובן, and יכן.

Verbs פ׳א Kal :—

AORIST.		PRESENT.	IMPERATIVE AND PRECATIVE.	
		SINGULAR.		
1.	asib, esib {acul / ecul}	asab	1.	lisub, lusib
2 m.	tasib tacul	tasab	2 m.	acul
2 f.	tasibi	tasabi	2 f.	aculi
3 m.	yasib	yasab		
3 f.	tasib etc.	tasab	3.	{lirur / lisub, lusib}
		PLURAL.		
1.	nasib	nasab		
2 m.	tasibu	tasabu	2 m.	aculu
2 f.	tasiba	tasaba	2 f.	acula
3 m.	yasibu	yasabu	3 m.	{lisubu / lusibu}
3 f.	yasiba	yasaba	3 f.	{lisuba / lusiba [1]}

PARTICIPLE—asibu.

Verbs פ׳ה Kal :—

		SINGULAR.		
1.	allic	allac	1.	lillic
2 m.	tallic	tallac	2 m.	halic
2 f.	tallici	tallaci	2 f.	halci
3 m.	illic	illac	3.	lillic
3 f.	tallic	tallac		
		PLURAL.		—
1.	nallic	nallac		
2 m.	tallicu	tallacu	2 m.	halcu
2 f.	tallica	tallaca	2 f.	halca
3 m.	illicu	illacu	3 m.	lillicu
3 f.	illica [2]	illaca	3 f.	lillica

PARTICIPLE—allicu.

[1] These Precative forms, *lusib*, etc., though ordinarily used, do not come from אשב, but from ושב. So the Pael *yussib* for *yu'assib* (cf. p. 57).

[2] Besides this usual form for verbs פ׳ה, we also find instances in which

Verbs פ״נ Kal :—

AORIST.	PRESENT.	IMPERATIVE AND PRECATIVE.
	SINGULAR.	
1. ulid	ulad	1. lulid, lusib
2 m. tulid	tulad	2 m. lid
2 f. tulidi	tuladi	2 f. lidi
3 m. yulid	yulad	3. lulid
3 f. tulid	tulad	
	PLURAL.	
1. nulid	nulad	—
2 m. tulidu	tuladu	2 m. lidu
2 f. tulida	tulada	2 f. lida
3 m. yulidu	yuladu	3 m. lulidu
3 f. yulida [1]	yulada	3 f. lulida

PARTICIPLE—ulidu.

Verbs פ״י Kal :—

	SINGULAR.	
1. inik	inak	1. linik
2 m. tinik	tinak	2 m. nik
2 f. tiniki	tinaki	2 f. niki
3 m. inik	inak	3 linik
3 f. tinik	tinak	
	PLURAL.	
1. ninik	ninak	—
2 m. tiniku	tinaku	2 m. niku
2 f. tinika	tinaka	2 f. nika
3 m. iniku	inaku	3 m. liniku
3 f. inika	inaka	3 f. linika.

PARTICIPLE—iniku.

the initial letter is regarded as a strong radical, and the verb is accordingly conjugated regularly; e.g. *aḫbid,* "I destroyed," *aḫapta* for *aḫbida, iḫbid, uḫabid,* for *uḫabbid,* etc.

[1] Besides ולד, we meet with הלד conjugated both regularly and like *alacu;* e.g. *usaḫlid, iḫaldu* (=*iḫlidu*).

The other conjugations of verbs פ א :—

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Iphteal.	tesub	itasab	itasib	itsib	mutasabu
Niphal.	[nāsub]	inasab	inasib	nasib	munasibu
Ittaphal.	—	ittesab	ittesib	—	muttesibu
Pael.	[assab]	yu'assab	yu'assib	ussib	mussibu
Iphtaal.	—	yutassab	yutassib	itasab	muttassabu
Shaphel.	sāsab	{yusasab / yusesab}	{yusasib / yusesib}	susib	musesibu
Istaphal.	[satesab]	yustesab	yustesib	sutesib	mustesibu
Istataphal.	[satetesab]	yustetesab	yustetesib	sutetesib	mustetesibu
Itaphal.	—	yutesab	yutesib	[utesib]	mutesibu
Pass. Pael	ussub	yu'ussab	yu'ussib	—	—
Pass. Istaphal.	sutesub	[yustusab]	[yustusib]	—	—

Verbs פ ה' :—

Iphteal.	—	itallac	itallic	itlic	mutallacu
Niphal.	[nalluc]	inallac	inallic	nallic	munallicu
Ittaphal.	—	ittallac	ittallic	—	muttallicu
Pael.	allac	yu'allac	yu'allic	hullic	mu'allicu
Iphtaal.	—	yutallac	yutallic	itallic	mutallicu
Shaphel.	[sallac]	yusallac	yusallic	sulic	musallicu
Istaphal.	[satallac]	yustallac	yustallic	sutallic	mustallicu
Passive Pael	[ulluc]	[yu'ullac]	[yu'ullic]	—	—

In all the above cases the reduplication may be dropped, and often is dropped in the inscriptions. On the other hand, these verbs פ ה' may be conjugated like the strong verb.

Verbs פ י' :—

Iphteal.	telud	itulad	itulid	—	mutalidu
Niphal.	nulud	[inelad]	[inelid]	nulid	[munelidu]
Ittaphal.	—	ittulad	ittulid	—	muttelidu
Pael.	[ullad]	{yu'ullad / yullad}	{yu'ullid / yullid}	ullid	mullidu
Iphtaal.	—	yutullad	yutullid	—	muttelladu
Shaphel.	[sulad]	yuselad	yuselid	sulid	musalidu
Istaphal.	[sutelad]	yustelad	yustelid	sutelid	mustelidu

Verbs פ״י :—

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Iphteal.	tenuk	itinak	itinik	itnik	mutiniku
Niphal.	[nenuk]	ininak	ininik	ninik	muniniku
Ittaphal.	—	ittinak	ittinik	nitinik	mutiniku
Pael.	[ennak]	{i'ennak} {innak}	{i'ennik} {innik}	unnik	mu'enniku
Iphtaal.	—	yuttennak	yuttennik	ittinnik	muttenniku
Shaphel.	[senak]	yusenak	yusenik	sunik	museniku
Istaphal.	[satinak]	yustenak	yustenik	sutenik	musteniku
Istataphal.	[satetinak]	yustetenak	yustetenik	sutetenik	musteteniku

It must never be forgotten that all this class of verbs (with the exception of פ״ה) are greatly confounded with one another, and had a tendency to adopt the same form borrowed from verbs פ״ע. The Assyrians pronounced ע as a vowel, and this served as a common meeting-point for the obscured sounds of the three primary vowels.[1] The same verb is sometimes conjugated as a פ״י, sometimes as a פ״ו, sometimes as a פ״א;,just as in Hebrew we have טוב and יטב, etc.

Concave Verbs.— These are not so numerous in Assyrian as in the cognate languages. They are generally replaced by verbs פ״א, פ״ו, פ״נ, or more especially by *palel.* So in Hebrew the concave verbs substitute *polel* for *piel.*

In Kal the first radical can be doubled, as in Hebrew.[2] So, too, with verbs ע״ה, as *innar* for *inhar.*

In Pael, the Permansive generally has a Passive or neuter meaning, and changes *ayya* into *i.* The other tenses are formed as though from פ״ו.

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[1] Even *h* sometimes represents *e;* thus, *buhi* (from *buh'u*) = בעה.
[2] The reduplicated forms really come from verbs פ״ה.

Niphal is formed as though from Palel.

Besides the participle active, Kal also possesses a participle passive, like Hebrew, though *u* has become *i*, as in Aramaic, e.g. *dicu*, "slain." This takes the same form as some parts of the Permansive Pael. Babylonian substitutes *e* for *i* in the first syllable, e.g. *nebi* for *nibi*.

Verbs א״ע, י״ע, and ו״ע are all conjugated in the same manner, except in Kal Aorist and Imperative. Palel and Iphtalel regularly appear in these verbs.

Intensive and Iterative forms, *Papel* and *Palpel*, are also formed from them; e.g. *babbaru, lallaru, gargaru, rakraku, khalkhallu.*

The Assyrians seem to have regarded in most cases the typical form as belonging to verbs א״פ; thus, the infinitive given in the syllabaries is *ta'aru*, not *turu* or *tavaru*.[1]

Kal :—

PERMANSIVE.		AORIST.			PRESENT.
		SINGULAR.			
1. camacu	ca'inacu	atur, attur		aciś	atar, attar
2 m. camta	ca'inta	tatur, tattur		taciś	tatar, etc.
2 f. camti	ca'inti	taturi, tatturi		taciśi	tatari
3 m. ca'am .	ca'in	itur, ittur		iciś	itar, idakki
3 f. camat	ca'inat	tatur, tattur		taciś	tatar
		PLURAL.			
1. camnu	ca'innu	nattur, natur		naeiś	natar
2 m. camtunu	ca'intunu	taturu, etc.		taciśu	tataru
2 f. camtina	ca'intina	tatura		taciśa	tatara
3 m. camu	ca'inu	ituru		iciśu	itaru
3 f. cama	ca'ina	itura		iciśa	itara

[1] Strictly speaking, however, *ta'aru* stands for *tawaru*, like קָם for קַוְם and קוּם (see p. 27).

IMPERATIVE AND PRECATIVE.

SINGULAR.	PLURAL.
1. luttur, lutur	2 m. duku, cinu
2 m. duk, cin, tirra	2 f. ducā, cinā
2 f. duki, diki, cini	3 m. litturu, lituru
3. littur, litur.	3 f. littura, litura

PARTICIPLE ACTIVE—*ta'iru, ca'inu.*[1]   PARTICIPLE PASSIVE—*tiru, cinu.*

In the other conjugations :—

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Iphteal.	[citnacu] tebācu, "I come"	{ictan itbā}	{ictin itbu'}	{citun tebu}	muctinu
Niphalel.	[nacnun]	iccanan	{iccanin izzanun}	nacnin	muccaninu
Ittaphalel.	[nactenun]	ittacnan	ittacnin	nitacnin	muttacnanu
Pael.	nibacu, nikha	{yu'uccan yuccan}	{yu'uccin yuccin}	[uccin]	muccinu
Iphtaal.	—	yuctan[2]	yuctin	—	mutaccinu
Palel.	cunnu, 3rd plural	yucnan	yucnin	ucnin	mucninu
Iphtalel.	—	ictenan	{ictenin ittarru}	—	—
Shaphel.	[sacân]	yusacan	{yusacen yusacin}	sucun	musaccinu
Istaphal.	[satecan]	yustacan	yustacin	sutcun	mustacinu
Aphel.	—	yuca'an	yucin	{cin cun}	mucinu
Itaphal.	—	yuccan	yuccin	—	muccinu
Shaphael.	[saccan]	yusaccan	yusaccin	succun	musaccinu
Istapael.	[sateccan]	yustaccan	[yustaccin]	[sutecvin]	mustaccinu
Pass. Shaphel.	sucun	yusucan	yusucin		

The regular forms of the Iphteal and Iphtaal have been first given above. These are occasionally met with—e.g. *etud* from עוד , *astil* from סול , *ultil* from סול , *uctin* from

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[1] So in Aramaic קָאֵם , Arabic *kā'imūn.*

[2] The length of this syllable is sometimes denoted by doubling the final letter before the conditional suffix ; e.g. *uctanna-su,* "I establish it."

כון;—but the usual forms are those in which the dental precedes the first radical: thus, *itbu*, "he went," *itcun*, "he established;" where the vowel of the last syllable is *u* in the Aorist, and *a* in the Present.

Verbs ל׳ע, ל׳י, ל׳ו, ל׳ה, ל׳א.　These verbs, like the classes already spoken of, are confounded in Assyrian.

The final vowel of the Aorist in verbs ל׳א, ל׳י, is *i*; verbs ל׳ע have *e*, e.g. *isme'e*, often improperly written with *i*. When *u* is added, the two vowels often coalesce into *u*; e.g. *itbi'u* and *ikbū*, *ismi'u* and *ismū*. The last radical almost always coalesces with *a* following. The pronominal suffixes generally require *a* in the last syllable.

Hebrew verbs ל׳ה are for the most part ל׳י in Assyrian. These have *u* final in the Aorist. Such Hebrew verbs ל׳ה as are ל׳י in Assyrian follow verbs ל׳א in having *i* in the Aorist, unless *u* is added, when *u* generally reappears: thus, *ikbi'*, *ikbu'u*. So, too, *a* is found when followed by the subjunctive augment *a*, or in the Present of the derived conjugations.

In the Imperative second singular verbs ל׳א lose the last radical; e.g. *nas* (from נשא); but verbs (ל׳ו,ל׳י) ל׳ה and ל׳ע have *i*, as *siti*, "drink" (from שתה). These verbs possess a Niphael as well as a Shaphael; thus, by the side of *illaki* we find *illakki*, "it was taken."

PERMANSIVE.	AORIST.		PRESENT.
	SINGULAR.		
1.　nasacu	abnu'	akbi'	agabbi
2 m. nasata	tabnu'	takbi'	tagabbi'
2 f. nasati	tabni'	takbi'	tagabbi'
3 m. nasu	ibnu'	ikbi'	igabbi'
3 f. nasat	tabnu'	takbi'	tagabbi'

PERMANSIVE.	AORIST.		PRESENT.
	PLURAL.		
1. nasanu	nabnu'	nakbi'	nagabbi'
2 m. nasatunu	tabnu'	takbu'	tagabbu'
2 f. nasatina	tabna'	takba'	tagabbā'
3 m. nasu'u	ibnu'	ikbu'u'	igabbu'u'
3 f. nasā	ibna'	ikbā'	igabbi'

IMPERATIVE AND PRECATIVE.   PARTICIPLE.

	SINGULAR.			PLURAL.		
1.	lubnu'	lukbi'		2 m. banu'		banū', banitu
2 m.	ban, bani	khidhi'		2 f. bana'		kabū', kabitu
2 f.	banī'	khidhī'		3 m. libnu'		
3	libnu'	likbi'		3 f. libna'		

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Iphteal.	[kitbu']	ikteba'	iktebi'	kitbi'	muktebū
Pael.	[kabba']	yukabba'	yukabbi'	kubbi'	mukabbū
Iphtaal.	—	yuktabba'	yuktabbi'	kitibbi'	muktabbū
Niphal.	nakbu'	ikkaba'	ikkabi'	nakbi'	mukkabu
Ittaphal.	[naktebu']	ittabna'	ittabni'	nitabni'	muttabnū
Niphael.	[nakabbu']	ikkabba'	ikkabbi'	[nakabbi']	mukkabbū
Shaphel.	[sakba']	yusakba'	yusakbi'	sukbu'	musakbū
Istaphal.	[satkeba']	yustekba'	yustekbi'	sutekbi'	mustekbū
Shaphael.	[sakabba']	yuskabba'	yuskabbi'	sukubbu'	muskabbū
Istapael.	[satkabba']	yustekabba'	yustekabbi'	[sutekabbi']	mustekabbū
Passive Pael.	kubbu'	yukubba'	yukubbu'	—	—
Pass.Shaphael.	sukubu'	yuskubba'	yuskubbi'	—	—

Verbs containing ע.—Most of the peculiarities of these
have been already alluded to.

In verbs ע'פ, the first person singular, as well as the
third person singular and plural in Kal, were represented in
Assyrian by *e ;* in Babylonian and Achæmenian *i* stands in the
third person ; the Babylonian, also, often used *e-i.* When
preceded by *u, e* became *u ;* the two *u*s were then contracted
into *ū* in Assyrian, though not in Babylonian, e.g. *ullā*
Assyrian, *u'ulla* Babylonian.

The second radical may also be irregularly doubled in Niphal. This is only found in the Achæmenian period: the older inscriptions omit the characteristic altogether.

Verbs ע׳ע have been already considered under concave verbs, from which they do not differ. The Babylonian inscriptions insert e in the Imperative, as se‘ebi.

Verbs ל׳ע do not differ from verbs ל׳י.

Verbs פ׳ע are declined in the following manner :—

Kal :—

PERMANSIVE.	AORIST.	PRESENT.	IMPERATIVE AND
	SINGULAR.		PRECATIVE.
1. [epsacu]	ebus, emid	epas, emad	1. libus
2 m. epista	tebus, temid	tepas, tebbas	2 m. ebus
2 f. episti	tebusi, temidi	tebasi	2 f. ebusi
3 m. epis	ebus, emid	ebas	3. libus
3 f. epsat	tebus, temid	tebas	
	PLURAL.		
1. episnu	nebus, nemid	nebas	
2 m. epistunu	tebusu, temidu	tebasu ·	2 m. ebusu
2 f. epistina	tebusa, temida	tebasa	2 f. ebusa
3 m. episu	ebusu, emidu	ebasu	3 m. libusu
3 f. episa	ebusa, emida	ebasa	3 f. libusa
	PARTICIPLE—ebisu.		

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Iphteal.	etbus	etappas	etebus	etpis	mutepisu
Niphal.	[nebus]	i(b)bas	i(b)bis	ni(b)bis	munebisu
Ittaphal.	[netebus]	ettebas	ettebis	nitebis	mutebasu
Pael.	[ebbas]	yubbas	yubbis	ubbis	mubbisu
Iphtaal.	—	yutebbas	yutebbis		muttebbisu
Shaphel.	[sebas]	yusebas	yusebis	subis	musebisu
Istaphal.	[satebas]	yustebas	yustebis	suttebis	mustebisu

Verbs doubly defective.—These may be divided into four classes :—

(1.) פ׳י and ל׳ה; as *nasu, nadu, nàbu, nagu, naku, nadhu, naru, naśu.*

(2.) א פ and י'ל; as *abu, adu, akhu, alu, anu, aśu, apu, atsu, aru, atu, yasu, yaru, yanu.*

(3.) י'פ and י'ע; as *aibu, 'umu, 'udu, 'unu, uru.*

(4.) י'ע and י'ל; as *bavu (bu), davu, cavu, lavu, navu.*

In (4) the second radical generally becomes a consonant:[1] in the other cases the verbs are conjugated according to the rules already laid down; thus, *isi*, "I had," from נשׂא; *tsā, tsī, tsu'u, tsa'a*, Imperative of *atsu*, from which a syllabary gives us the following *nomina verbi* : *atsu, atsit, tsav, satsu'u* (Shaphel), *sutsu'u* (Passive Shaphel), *tetsitu* (Iphteal), *sutetsu'u* (Istaphal). So *ibbi*, "he called," from *nabu.*

Quadriliterals.—These are comparatively few in number in Assyrian. Dr. Oppert gives the following instances : *parsidu, palcitu, parzakhu, palśakhu, paśkaru, khamzatu*, to which may be added *kharpasu, naśkaru, śakhparu.* In the Aorist verbs with *u* (mostly transitives) have *iśkhupir*, Present *iśkhupar;* verbs with *a* (and *i*) (mostly intransitives) give *ipalcit*, for which the vulgar language had *ipalaccit* and *iplacit.*

For further details see p. 52. The conjugations will be :—

	PERMANSIVE.	PRESENT.	AORIST.	IMPERATIVE.	PARTICIPLE.
Kal (Palel).	palcit	{ipalcat / iśkhupar}	{ipalcit / iśkhupir}	palcit	mupalcitu
Iphtalel.	[pitlucut]	yuptalcat	yuptalcit	pitalcat	muptalcitu
Saphalel.	[saplacat]	yuspalcat	yuspalcit	supalcut	mupalcitu
Istaphalel.	[saptelcat]	yustapalcat	yustapalcit	sitpalcut	mustapalcitu
Niphalel.	[naplacut]	ippalcat	{ippalcit / ipparsud}	nipalcat	muppalcitu
Ittaphalel.	[naptelcut]	ittapalcat	ittapalcit	natepalcat	muttapalcitu
Niphalella.	—	ippalcatat	ippalcitit	—	muppalcittu

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[1] Not always, however. Thus *bavu*, "to go," is always conjugated as if it were *bu;* e.g. *ibu*, "they went," *yustebā* or *yusteba'a*, "he caused to go."

THE PRONOMINAL SUFFIXES OF THE VERB.

These are identical with those of the cognate languages, the third person beginning with the original sibilant, as already explained (p. 12). They are as follows:—

SINGULAR.

1st pers.	-anni, -inni, -nni, -ni.
2nd m.	-acca, -icca, -cca, -ca, -c.
2nd f.	-acci, -icci, -cci, -ci.
3rd m.	-assu, -issu, -su, -s.
3rd f.	-assi, -assa, -ssa, -ssi, -sa, -si.

PLURAL.

1st pers.	-annini, -annu, -nini, -nu.
2nd m.	-accunu, -accun, -cunu, -cun.
2nd f.	-accina, -accin, -cina, -cin.
3rd m.	-assunut(u), -assunu, -assun, -sunut(u), -sunu, -sun.
3rd f.	-assinat(u), -assina, -assin, -sinat(u), -sina, -sin.

In the first person, the longer form -anni was used when the form of the verb ended in a consonant, and the double letter merely showed that the accent rested upon the penultimate. If the form terminated with a vowel, ni was properly used alone; e.g. isrucú-ni, "they have given to me;" ikbú-ni, "they ordered me"; yumahrá-ni, "he urged me." The penultimate was long, and in order to show this a kind of Furtive Pathakh was introduced, producing isrucú-'inni, a form that is frequently met with; e.g. usazizú-'inni, "they made me strong." Inni was sometimes used even after a, though here the correct form again was ratsibá-nni, "pierce me," where the double letter only marks the accent. In later inscriptions the language approached more nearly to the Hebrew pronunciation by substituting Pathakh for i (in -inni), and expressing in the writing the hemza: thus, in the Achæmenian period we find litstsuru-h-anni, "may they protect

me," *itticru-h-anni*, "they were estranged from me." After *u*, *-nni* was never used, as *u* was known to be long of itself: if, therefore, particular stress had to be laid upon the enclitic, hemza was employed as shown above. Very rarely *u* was dropped after first becoming *w;* e.g. *yuraps'-inni*, "they enlarged for me." *U-a* became *wa;* accordingly, when the union-vowel *a* was used for the sake of emphasis, and hemza did not intervene to produce *u-h-inni* or *u-h-anni*, *u* was dropped altogether, so that we get *yusatlimanni*, "they conferred on me," for *usatlimwanni.* The union-vowel *a*, as in Hebrew and Æthiopic, is found with all the pronouns. It is the same vowel that we have in the accusative of the noun and the subjunctive aorist, and it well expresses the action of the verb passing on to the governed pronoun. Compare the union-vowel *ǎ* in Æthiopic, which expresses the construct state both in the singular and the plural. Like the Æthiopic, the Assyrian has no separate form to express the dative of the pronoun.

With the second person feminine, *a* after *i* is dropped, so that we get *tucassipinni*, "thou didst reveal to me," *tucaśinni*, "thou didst cover me," *tu'alinni*, "thou didst exalt me." This contraction of *ya* into *i* has met us before, as in *bitu* for *biyatu* (see p. 35).

Instead of the suffix *ani*, *yati* or *yasi* could be used as a substantive; e.g. *ikbū yati* (see p. 38).

In the second person the same rules hold good, except that the contracted forms of the pronouns (*ca*, *ci*, etc.) may be attached to consonants. The last vowel of the second person singular masculine, and masculine and feminine plural is sometimes omitted, as in *attápsac* for *attappisáca*, and the

accent is thrown back upon the preceding syllable. In the vulgar language, instead of the suffix, the substantival *attunu* (*attina*) could be used in the accusative, e.g. *altapra attunu*, "I sent to you," where -*a* carried on the action of the verb to the pronoun.

In the third person singular and plural, again, the final case-vowel is frequently dropped (as in the *status constructus*, and in Hebrew, Aramaic and modern Arabic generally). Thus we find *usátlimus* for *usatlimúsu*. This is especially the case, if the verb ends one sentence, and the next word begins with a vowel. In Babylonian, verbs ל'ן might assimilate this final letter to *s* following; e.g. *indanassu-nu-ti* for *indanan-sunuti* (Palel), *tumasissunuti* for *tumassin-sunuti*, "thou knewest them."

The longer forms, *sunutu*, etc., are as often employed as the shorter ones. They are increased by the same suffix as that of the Æthiopic pronouns *wetu*, *yeti*, which forms abstract substantives in Assyrian (see below).[1] The nominative would be -*tu*, but, of course, when governed by the verb, we only find the oblique and accusative cases -*ti*, -*ta*, more generally the former. This is accounted for by the fact that the idea contained in the verb does not pass on to any new idea: the pronoun refers back to some preceding notion. Just as the genitive has -*i*, marking its priority to the noun in the *status constructus*, so is the priority contained in the personal pronoun suffix expressed by the same case-termination. These

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[1] As the same suffix builds the plural, a double plural is the result. According to Philippi (Wesen u. Ursprung d. Status Constr., p. 26), this suffix is the demonstrative that we have in the third person feminine of the Imperfect, the Arabic demonstrative تِی .

longer forms, it must be observed, are used as accusative substantives, not as suffixes like -*sunu*, etc.

The final vowels might be dropped in *sunut*, etc., as in -*s* for *su* or -*ca*.

In the third person feminine singular, *si* is nearly as common as *sa*, *a* being weakened to *i* (like רֵאשׁ and *risu*, etc.), -*assi*, -*assa* stand for -*āsi*, -*āsa*, as in *pitassi*, " open for her," where the double letter only expresses the length of the final vowel (=*pitā-si*).[1]

With the enclitic conjunction *va*, mimmation generally takes place to denote the accent: e.g. *icsuda-ssuv-va*, " they obtained him, and," *icsudu-sunutav-va*, " they obtained them, and."

With the pronoun-suffixes contractions in the verbs are frequent, *í* and *ă* being as often elided as retained; e.g. *isalmúsu* for *isallimú-su*.

THE NOUNS.

As in the cognate languages, nouns substantive and adjective have in Assyrian the same form, and but two genders, masculine and feminine. There is no separate form for the comparative and superlative. Like Æthiopic and Aramaic, Assyrian possesses no article, which in Hebrew and Arabic is merely the demonstrative pronoun. In the Achæmenian period, however, an article was being introduced (see p. 5).

Assyrian has three numbers, Singular, Plural, and Dual; but the last is very little used. It preserves (like classical

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[1] The strange form *cunu-si* in Assur-bani-pal's proclamation (S.H.A., 189)—*ludhab cunnusi*, " may it be well with you,"—must be a badly-engraved *ti*, as in *at-si-mus* for the usual *atnimmus* (see p. 76), unless the character has a value *tim*.

Arabic) the case-terminations of the primitive Semitic speech, -*u* (nominative), -*i* (genitive), -*a* (accusative). These have been lost in modern Arabic (though still used in Central Arabia), in Aramaic, and in Hebrew (which has but a few traces of them); while Æthiopic only preserves the accusative in -*a*. In Assyrian itself the suffixed pronouns are often found without the final vowel; and the Construct State is marked by the absence of the case-ending in the governing noun if in the singular; thus, *sarru*, "king," but *sar nisi*, "king of men." Besides the case-endings, as in the verbs, a final *m* might be added to the vowel, giving *nisum, nisim, nisam*. This is regarded in the syllabaries as the correct form, though in the inscriptions this *mimmation*, as it has been happily termed by Dr. Oppert, is frequently omitted. Dr. Oppert compares the Arabic *nunnation*, and refers to the mimmation traceable in Hebrew in the adverbial accusatives פִּתְאֹם ,רֵיקָם ,אָמְנָם ,חִנָּם ,יוֹמָם, compared with يَوْمًا, etc., where an obsolete plural can hardly be represented.[1] The origin of the mimmation is probably, as with accusatives and neuters in the Aryan languages, an attempt to give firmness to the final vowel, which produces an obscure closing of the syllable.

Before going further, it will be necessary to controvert Dr. Oppert's extremely misleading ascription of an "emphatic state" to the Assyrian noun. Olshausen has already objected that "the value of the nasalisation of the case-vowel in

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[1] So יוֹמָם in Phœnician (Cit. 38) and Aramaic *yêmâm, îmâm.* Nöldeke (Gött. gel. Anz. June 7, 1871) objects that these words are as little accusative as לֵילָה (Assyrian *lilatu*) or the Syriac *ai* in *lailai îmâm*, "day and night." Himyaritic, like Assyrian, possessed the mimmation.

Arabic, and of the *status emphaticus* in Aramaic, is not only altogether different, but totally opposed : the Arab nasalises the termination of the indeterminate word, the *status emphaticus* marks the determined word. The nasalisation is really part of the case-ending; the *status emphaticus* is first made possible through the loss of the latter. While it is conceivable that in Aramaic the termination $\bar{a}$ arose from the termination $\check{a}$, it is in the highest degree improbable, nay impossible, that $\bar{a}$ could also arise from $\bar{u}$ and $\bar{i}$." The last sentence refers to Oppert's transliteration of all the case-endings by א ; a procedure which throws Semitic philology into the greatest confusion, assumes the original identity of the case-terminations, which is philologically impossible, and in spite of Arabic derives them from the post-fixed article of the Aramaic. Oppert replies that as the Assyrian has no article, it cannot be compared with Arabic : its case-endings correspond to the Arabic noun without *tanwîn* preceded by the article, and to the Aramaic emphatic state. But the emphatic state in Aramaic is most probably a post-fixed article, consequently it can be compared with the Assyrian even less than Arabic. Moreover, under any circumstances, the Aramaic emphatic state has a different philological origin from the Assyrian case-endings, which can be compared only with the similar terminations in Arabic. Besides, the case-endings are used in Assyrian in cases where the article, as a general rule, would not be allowed (as with predicates). Dr. Oppert seems to separate the mimmation and the case-vowels : this cannot be done : the mimmation is but the older and more correct form belonging equally to verbs and nouns, which a later stage of language began to drop, though it was generally

retained before the conjunction *va*. Dr. Oppert's view reduces itself to this : either the "emphatic state" in Assyrian means a post-fixed article, which is untrue, or it means that special emphasis was to be laid upon the words which have the case-endings—always added unless the noun is in the construct state —which is equally untrue.[1] The error is a serious one ; it not only calls up misleading ideas, but it actually gives rise to mistakes, such as placing *'ilu* (with the case-vowel) by the side of *bucur* (in the *status constructus*) and the feminine *ilit* (also in the *status constructus*), the statement that "the emphatic state is sometimes reduced to the syllable *-an*" (again the *status constructus*), and the strange assertions that "the plural of feminines is always formed from the simple form of the singular. Thus the plural *rapsat* does not come from *rapasuti* [it ought to be *rapăsutu*], but from *rapsat*," and that "the plural of masculines is generally formed from the emphatic state, e.g. *gimri* from *gimir*, status emphaticus *gimru*."   It is like saying that *dominis* comes from *domino*.

Derivation of Nouns.—As in the other Semitic languages, a distinction may be made between primitive nouns, such as *'abu*, "father," *'ummu*, "mother," and derivative nouns. Properly, however, derivative nouns ought to be those which are formed by the addition of a new letter, *m*, *t*, etc. ; the so-called verbal nouns arising simultaneously with the verb itself from the radical idea.   The different forms of the verbs, modified by pronouns and formative letters, are more strictly derivative than many of the so-called derivative participial or infinitival nouns.   We may assume a time in the history

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[1] As in the case of the predicates mentioned above, or of substantives used as prepositions, e.g. *erti sarri*, "against the king."

of Semitic speech when the same combination of consonants might be used either as noun or verb :[1] gradually differences of meaning were introduced, firstly by means of *nuances* of vowel-sounds, or by reduplication of the radicals, and afterwards by additional elements. However, it will be convenient to adhere to the usual custom of Semitic grammars, and to treat of " verbal nouns " as derivatives.

With three radicals we have :—

From Kal—

(1.) *sacan,* nomen permanentis, to be distinguished from infinitive *sacân ;* e.g. *zacaru* " monument," *casadu* " acquisition," *sadharu* " writing," *alapu* " ox," *tsalamu* " image," *naharu* " river " ; as adjectives *karadu* " warlike," *gasaru* " bold."

(2.) *sacin,* nomen permanentis, to be distinguished from the nomen agentis *sâcin ;* e.g. *zacipu* " cross," *amilu* " man " ; adjectives *namiru* " bright," *malicu* " king," *cabidu* " heavy," *labiru* or *laberu* " old."

(3.) *sacun,* nomen permanentis, to be distinguished from *sacûn,* the nomen mutati ; e.g. *batulu* " young man " ; adjectives *marutsu* " difficult," *ru'uku* for *rahuku* " distant," *casusu* " servant."

(4.) *sicin,* a segholate ; e.g. *sidhiru* " a writing," *sipicu* " a heap," *episu* " a work," *gimiru* " the whole," *cisid-tu* " spoils " ; adjective *zikhiru* " small."

(5.) *sican,* nomen permanentis ; e.g. *cisadu* " presence "; adjective *zicaru* " manly."

(6.) *sicun,* nomen mutati ; e.g. *zicuru* " memorial," *cisudu* " a captive " ; adjective *emuku* " deep."

(7.) *sucun,* nomen permanentis ; e.g. *sulukhu* " citadel," *cupuru* " bitumen," *cududu* " gem."

(8.) *sucan,* nomen permanentis ; *suparu* " measure," *khuratsu* " gold " ; adjective *pumalu* " strong."

(9.) *sucin,* nomen permanentis ;[2] e.g. *buridu* " a pie " (bird).

[1] Comparative grammar, however, shows that in Semitic the verb presupposes the noun ; just as in Aryan the noun pre-supposes the verb.

[2] These three last forms are identical with the Hebrew קְטָל, קְטֵל, קְטֹל, formed after the infinitive, and therefore dissimilar from the forma-

(10.) *sacân*, nomen mutationis; e.g. *tsabâtu* "to take," *rakhâtsu* "to inundate," *paraccu* for *parâcu* "to rule," *canâsu* "submission."

(11.) *sicîn*, nomen mutationis; e.g. *nicîsu* "to cut off," *episu* "to make."

(12.) *sucûn*, nomen mutationis; e.g. *sumûru* "to keep."

(13.) *sâcin*, nomen agentis; e.g. *mâlicu* "ruling," *kâ'isu* "snaring," *dâciku* "governing," *âlicu* "going," *mâgiru* "loving."

(14.) *sacîn*, nomen mutati; e.g. *dalîkhu* "troubled."

(15.) *sacûn*, nomen mutati; e.g. *darûmu* "a dwelling."

From Pael (expressing intensiveness)—

(1.) *saccan*, nomen permanentis; e.g. *gammalu* "camel;" adjective *karradu* "warlike."

(2.) *siccan, sican*, nomen mutantis; e.g. *limmanu* (*limanu*) "injuring," *ziccaru* (for *ziccaru*) "remembering."

(3.) *siccun, sicun*, nomen mutati; e.g. *limmunu* (*limunu*) "injured."

(4.) *siccin*, nomen permanentis; e.g. *citstsilli* "royal."

From Pael Passive—

(1.) *succan, sucan;* e.g. *'ummanu* "army."

(2.) *succun, sucun;* e.g. *gurunu* (*gurrunu*) "a heap," *supucu* "a heap," *cussu* "a throne"; *cutummu* "gilded"; and the infinitives *tsukhkhuru, sullumu,* etc.

From Palel—

(1.) *sacanan*, nomen permanentis; e.g. *adannu* "mighty."

(2.) *sacunun*, nomen mutati; e.g. *agurru* "cement."

(3.) *sicinin*, nomen mutationis; e.g. *cidinnu* "ordinance," *citirru* "cornice."

(4.) *sucunun*, nomen mutationis; e.g. *cudurru* "landmark"; *sulummu* "alliance."

(5.) *sacanin*, nomen permanentis; e.g. *namriru* "bright."

From Iphteal, Iphtaal—

(1.) *sitcun*, nomen permanentis; e.g. *kitrubu* "a meeting," *etubu* "witness"; adjective *pitkudu* "good"; also infinitives, as *sitlumu* "to perfect."

tion of *sacan, sacin,* and *sacun* from *sacnacu.* They express a permanent state *after change,* and therefore may perhaps be better termed *nomina mutati.*

(2.) *sitcun* (Iphtaal), nomen mutati; e.g. *citmuśa* "stored."

(3.) *satcun*, nomen mutati; e.g. *latbusu* "covered," *latcu* "made king."

(4.) *sitcin*, nomen mutati; e.g. *etpisu* "made."

(5.) *sitcan*, nomen permanentis; e.g. *eitmas(tu)* "a gathering;" adjective, *gitmalu* "benefactor."

From Shaphel—

(1.) *sascan*, nomen permanentis; e.g. *sapsaku* "opening," *satsū* "expulsion."

From Shaphel Passive—

(1.) *suscun*, nomen mutationis; e.g. *sumcutu* "a slaughter," *surbu* "greatness," and the usual infinitives *sulburu* "preservation," *sundulu* "protection," *susmuru* "guard," etc.

From Niphal—

(1.) *nascan*, nomen permanentis; e.g. *nabkharu* "collected," *naramu* "chosen," *namratsu* "difficult."

(2.) *nascân*, nomen mutationis; e.g. *napdhāru* "to defend."

(3.) *nascin*, nomen permanentis; e.g. *nabnitu* "offspring."

(4.) *niscin*, nomen mutati; e.g. *nemiku* "deep," "learned."

(5.) *niscan*, nomen mutati; e.g. *niclalu* "a completion."

(6.) *nuscan*, nomen mutati; e.g. *numkharu* "the receipt."

(7.) *nasacin*, nomen permanentis; e.g. *nadannu* "strengthened," *naparcu* "diminished."

From *papel* and *pilpel* we have *gigune* "defences" (גֵּנֵן), *gigurū* "copulative" (גּוּר), *dandannu*, "very powerful," *durdaru*, "great age." Verbs פ'א and פ'ו have curious derived forms which repeat the second radical; e.g. *liliccu* "a going," *lillidu* (pael) "a birth," *dadmi* "men" (אָרֵם), *babilat* "bringing" (of water, יָבַל), *papakhu* "shrine" (אָפֵּח).

From defective verbs we get similar formations. In concave verbs, except in the participle active Kal, the vowel of the first radical was assimilated to that of the second; e.g. *ra'uku* for *ra'uku* (רָאַק, רחק), *miru* "offspring" for *ma'iru*. In

Pael we have a nomen mutati *saccin ;* e.g. *mi'iru* "off-
spring" for *ma"iru.* Verbs with *e* for second radical often
take *h* instead; thus we have *bahlatu* by the side of *belatu.*
Verbs פ'נ, as in Hebrew, drop the first syllable in *sacin ;*
e.g. *sahu'u* "summit" (from נשא). So *sascan* appears as
sass'u "spoil" (נשא). In verbs פ'י the initial radical was
dropped in *sacan, sicin,* and *sicin, sucun, sacin* (but not *sacin*),
and *siccin ;* e.g. *radu* "servant" (ירד), *ridu, rittu* for *rid(a)tu*
"foot," *rudu* "chariot," *littu* (for *lidtu*) "offspring," and
liditu, lidu (but *ilittuv*), *li'idu* or *li'itu.* In other cases the
initial vowel is always *a ;* e.g. *ardatu* "service," *atsu* "a
going." The same verbs give us also such forms as *lida'atu*
(from the infinitive), *littutu* (palel). In Niphal the forms are
nullatu "height" (*nuscan*) and *nebiru* "passage" (*niscin*).
The Pael Passive is *ubburu* "ford," with the second radical
doubled according to rule. In verbs ע'ע the second radi-
cal is doubled before a case-ending : otherwise only the
first two radicals are expressed ; e.g. *sar* but *sarru, lib* but
libbu, 'um but *'ummu. Pilpel* generally becomes *papel* in
Assyrian, as *kakkadu=*קָדְקֹד, *caccabu=*כּוֹכָב (כּבכב). Verbs
ל'ה assimilate their last vowel to the case-ending ; thus *pu'u,
pi'i, pa'a.*

Besides these inner and more primitive formations, we
have also, as in the cognate languages, external formations
created by the broken-down roots *m, t, n,* and an initial
vowel.

The prefix *m* (see p. 59) denotes the instrument, action,
or place ; e.g. *manzazu* "a bulwark" ("anything fixed"),
marsitu "a heritage," *mandattu* "tribute" ("what is
given"), *miscunu* "dwelling," *midduku* "slaughter" (אדק),

where *a* has been weakened to *i*, as is often the case in Hebrew. Its use in forming the present participles of the verb has already been considered.

N is used both as prefix and as suffix. As a prefix it is to be referred to Niphal (see p. 77). As an affix it must be carefully distinguished from the plural, with which it may easily be confounded. The usual form is *ānu*, like Arabic *ānŭn* for adjectives, or *dn* and *ón* in Hebrew. Originally it would seem to have been *āmu* (comp. עִירֹם and פְּרִיֹם). In this case its origin would have been the same as that of the mimmation.[1] Besides *ānu*, we have also *inu* (and even *innu* for *īnu*), more especially in adjectives. It builds abstracts and adjectives used as substantives : e.g. *lisānu* "tongue," *kirbānu* "an offering," *bunanu* "image," *almanatu* "widow," *ristānu* "first-born," *sildhānu* "king," *elinitu* "high," *terdinnu* "a descending." -*Unu*, as in Hebrew, is rare : we find *dilunu* by the side of *dilutu*, and *agunu* "crown," by the side of *agu*.

T inserted has already been noticed. Of a different origin is *t* affixed to build abstracts, which must be referred to the same source as the feminine termination. This is always *utu*, as in *malcutu* "kingdom," *sarrutu* "royalty," *belutu* "lordship," *ristanutu* "headship." These feminine abstracts must be distinguished from the masculine plurals in *utu ;* and they never admit the plural. There is also another rare feminine

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[1] Possibly, however, considering the long *ā*, it is a plural form, used to express an abstract singular, like neuter plurals in Aryan languages. This is borne out by forms like *saniyānu*, "for the second time." In Hebrew *ón* has been changed into *ōn* (Ewald, Gramm., § 341, who refers it to the demonstrative *an(nu)*); so *'anochi* for *anacu*, etc. Compare the feminine abstracts in -*utu* by the side of the plurals in -*utu*. The plural -*ānu*, it must be remembered, was indifferently masculine or feminine.

abstract formation in -*ti* from -*ăti*; e.g. *amarti* "a body," *tukulti* (*tuklat*) "help." It is difficult to say whether this irregular formation is the oblique case of the ordinary feminine in -*tu*, or whether it is a plural, the masculine termination in -*i* being affixed to the feminine termination, as in the plurals in -*tan*, to be considered later.

T prefixed is common, and is derived from the secondary conjugations, like תִּגְמוֹל in Hebrew, or the Arabic *takat-tulŭn, takătulŭn*. It refers us to a period when strong verbs, as well as concave verbs, might prefix the dental. The forms with *t* prefixed are *tasmeatu* "hearing," *tamkhatsu* and *takhatsu* "battle," *talucu* (*tallucu*) "a going," *talidtu* "birth," *tamirtu* (*tammirtu*) "sight," *takhlupu* "a coping."

With *e* (*i, u*) initial, *ta* becomes *te*; e.g. *tenisetu* "mankind," *terdinnu* "descent." As in Hebrew, the forms thus produced are abstracts. *Tu* even is found, e.g. *tupukatu* "race" (iphtaal), compared with *piteku* and *pitku, tukumatu* or *tukmatu* "opposition," from קוֹם.

Roots increased by prefixed vowels are rare; though, not as in Hebrew, preserved only in such old words as יִצְחָק, etc. The original vowel seems to have been *a*; this was weakened to *i* and *e*, and even to *u*. Thus we find *alcacat* and *ilcacat* "stories," *aplušu* "weight," *aškuppu* "doorpost," *acalūtu* by the side of *calutu*; *ipdhiru* "ransom" (פְּטַר); *edakhu* by the side of *dakhu* "king"; *ebillu* by the side of *belu*; *utuhut* "desire" (תַּאֲוָה), *urinni* "ostrich-hens" (רְנָנִים), *uta'ama* and *ita'imu* "lawgiver." The length of the first syllable is shown by the fact that it may be doubled before a defective root, as in *immiru* "youngling," by the side of *miru* and *emartu*. As in Hebrew and Arabic, intense

active qualities are thus denoted. The origin of the prefixed vowel is obscure. It may be compared with Aphel (Hiphil, etc.), and so may be set by the side of *sascan* and *suscun*: on the other hand, as initial *s* passes into *h*, it may be referred to the third person pronoun, in which case *u* will be the original vowel. Perhaps this may throw light on the origin of the third person of the imperfect, where *i-* will stand for *u-* (=*su*) (see p. 61).[1]

Gentile nouns are formed like the Arabic relatives in *iyyŭn* by *ai* (*aya*), e.g. *Accadai* " the Accadians," *Aramai* " the Aramæans." So -*i* in Hebrew, -*ai* in Aramaic, -*i* in Æthiopic for derived adjectives, and -*āwī* and -*āy* for gentilic nouns.

A few rare forms, *pilpal* (e.g. *mulmulu* " heavy-armed," *laklaku* " stock," *girgirru* " roaring water") and *peawel* (Arabic Twelfth conjugation) (e.g. *adudillu*), are also met with (see p. 107).

Quadriliterals are occasionally found, as well as a few quinqueliterals. Generally the former are produced by the insertion of *r* or *l*, and more rarely *n*, into the root; e.g. *sikhuparu* " overthrow," *kharpasu* " vehemence," *asaridu* " eldest," *palcitu* " trespass." Sometimes a dental has this function, as in *ipparsu* by the side of *ipparsidu* or *ipparsudu*. One of the superfluous letters, especially an *r*, is often assimilated by the Assyrian, as in *annabu* (Hebrew and Arabic ארנבת) " hare," *itstsuru* " bird" (Hebrew צפּור, Arabic *tsāfir*, '*atsfūr*). Another way of forming these words is by repeating at the end one of the radicals, more usually the

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[1] The length of the syllable precludes us from ranking it with the merely euphonic *ă* in the numerals (see further on).

first, as in *khamilukhkhi* "stores," *gablubu* "roof" by the
side of *gablu*. The initial is also repeated, as in *gungulipu*
"hump," with *n* inserted as a fulcrum-letter. So in *seseru*
"hero," by the side of *serru*, and in *saśkhartu* "small," by
the side of *śukharu'u* and *tsikhirutu*: in *śazzaru* an assimila-
tion has taken place. Many of these increased roots double
the last letter before the case-ending, as in verbs עׁעׁ; e.g.
barzillu "iron," *khabatsillatu* "lily."

Primitive roots must be left to the lexicographer. In
these the Assyrian approaches most nearly to the Hebrew.
Its vocabulary was very large, and the syllabaries enable us
to compare together certain roots and forms which throw
light upon the phonology of the primitive Semitic language as
well as of the Assyrian. Thus *l* and *r* are interchanged in
ayalu and *ayaru* "man," "hero" (אֱיׁל); and *abru* (=*abaru*),
namaru, *amaru*, *acaru* and *aduru* are all given as synonymous.
With this correspondence of *c* and *d* compare the synonymes
acasu and *atasu*. So, again, we have *nadu'u*, *adu'u*, and *aru'u*
("clear") (compare *irin=idin*); and *askhu* joined with *asru*
"place." *G* and *c* are interchanged, as in *acu* "crown," by
the side of *agu* and *egu*, or in *daragu*, *durgu* "road" (דֶּרֶךְ), or
in *dugaku* "king," by the side of *daciku* and *dakhu*. The inter-
change of *a* and *e* is frequent; and *t* and *d* are interchanged
in *atamu*, *atmu*, "man," by the side of *adamu*, *admu* (the
converse takes place in *nadanu*=נתן). *Kalu'u* and *kamu'u*
or *camu'u*, "burn," may be compared; and *p* and *q* are
interchanged in the root *asluq* and *aslup*, "I pulled out."

The noun may have its meaning rendered more specific by
the reduplication of the first radical, or the prefixing of the
pronoun *a* (see p. 110), as in *dadmu* and *admu*, "man"

(אדם), from *damu* "blood," "relation," "child." The tablets also afford us a number of synonymous forms from the same root: thus, *mar* "youngling," is equivalent to *mir*, *ma'aru*, *immiru*, *mi'iru*, *mu'uru*; *beltu* ("lordship") to *bahilatu*, *be'litu*, *ebiltu*, and *bilatu*; *tsikkhirutu* ("small") to *sazzaru*, *ikhru'utu*, *saskhartu*, *sisseru*, *tsikhirutu*, *sukharu'u* (where the interchange of *s* and *ts* is to be noticed); *assatu* to *issu* ("woman"); *malucu* and *malicu* are identical in meaning; and *biltu* or *bilatu*, and *tsikhritu* or *tsikhirtu*, may be indifferently used.

The most interesting point connected with this part of the subject is the Turanian origin of many Semitic words, more especially of the so-called biliteral roots (see p. 9). Besides the many instances given in the syllabaries in which Accadian words in the one column are Semitised in the other column,—e.g. *muq*=*muccu*, *nanga* ("town")=*nagu'u*, *kakkul* = *kakkullu*, *gurus* ("hero")=*gurusu*, *lamma* ("monster")= *lamassu* (? Talmud. לממ), *sā*=*sa'amu* ("blue"), *dī*=*denu* ("judge"), *silim*=*sulmu*, *ab*=*abtu*, *zik*=*zikku*, *surru*=*surru'u* ("beginning"), *ingar*=*iccaru* ("foundation"), *sab*=*sabbu*, *al* =*allu*, *ge*=*citu* ("abyss"), *sangu*=*sangu'u*, *pisan* ("branch") =*pisannu*, *cir* = *ci'iru*, *mitsi* = *mansu'u*, *sek* = *sakummatu* ("height"), *zab*=*za'abu*, *mar*=*marru*, *cur* ("land")=*cu'uru*, *mat* ("country")=*ma'atu*, *gur* ("return")=*gurru*,—we find the prototypes of many words hitherto known as Semitic in the Accadian language.

Instances may be found in the above list, *sa'amu* (שהם). *denu*, *ge* (גיא), *surru* (Æthiopic *sārara*), *ingar* (נקר), *gur* (גור, גרר); to which we may add *id* "hand" (יד), *sar*

" king," apparently *pa* " speech " (פֶּי),[1] *khul* " sick " (חלה),
gun " inclosure " (גן), *uru* " city " (עִיר), as in *Jerusalem*; the
Assyrian is *âlu*, אהל), *cin* " work " and *gin* " make " (כון),
whence *gina* is translated *cinu* " constituted," *bat* " open "
(perhaps Assyrian *pitu'u*, פתח), *zabar* " bronze " (Assyrian
siparru, Arabic *tsifr, tsufr, atsfarra*), and many others. In some
cases the loan-word has been further modified in accordance
with the rules of Semitic grammar. Thus, the Accadian *kharra*
" man," gives rise to the Assyrian *khairu*, whence we get the
usual word for " wife," *khiratu, khirtu*, with the feminine
termination attached. The Assyrian especially has been
indebted to the Accadian vocabulary, and one of the chief
difficulties of decipherment arises from our ignorance of the
meaning of the numerous words so derived, which are not to
be found in any of the other Semitic tongues. Thus one of
the commonest Assyrian adjectives is *dannu* " strong," from
Accadian *dan;* and *matu* " country," has a similar Turanian
origin (*ma* or *mada*). A converse interchange of words seems
also to have taken place in those prehistoric times when
Turanian and Semite bordered one upon the other : thus,
surru, in the list given above, may really have been Semitic;
gabiri, one of the many Accadian words for " mountain,"
appears clearly to be Arabic *jebelŭn*, and the ungrammatical
title of the Proto-Chaldean kings *ciprat irba* was borrowed
from the Semitic *cipratu irbai* or *irbittu*, " the four races "
(of Syria).

Number and Gender.—The Assyrian, like the cognate lan-
guages, possessed three numbers, Singular, Dual, and Plural.

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[1] So, just as *ca-ca* " mouth-mouth," meant " face," *pânu* or *pâtu*,
פנים, etc., has the same signification in Semitic.

The Dual is rarely used, and is restricted, as in Hebrew, to pairs like *uznā* "ears."[1] Similarly, in modern Arabic the dual has been lost almost entirely in verbs, pronouns, and adjectives; and only three words in Syriac possess it. In Æthiopic it does not exist at all. It is, however, older than the plural: the primitive savage, with his narrow wants and small stock of language, had neither need nor capacity of speaking of more than two persons. Gradually as isolated life gave way to nomade life, and the power of counting numbers was developed, the plural—which originally expressed merely the indefinite number that all beyond two seemed to the feeble mind of the savage to be—came more and more into use, until civilization finally dropped the dual altogether. The dual is usually denoted in the inscriptions by the addition of the symbol of "two": it was sounded as *ā*. This corresponds to Arabic -*āni*, Hebrew -*aim*, Aramaic -*ain*, the final consonant being dropped, as generally in the plural. Examples of the dual are: *uzna'a* (and in Babylonian *uzŭna'a*) "the ears," *katā* "the hands," *birkā* "the knees," *ina'a* "the eyes," *sepā* "the feet." There is no distinction of gender.

The Plural is formed in several ways. The oldest is that which terminates in -*ānu*, -*āni*, -*ān*, which is found in a comparatively small number of substantives, some of which also form their plural in other ways: e.g. *pa'anu* and *pa'atu*,

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[1] The adjective in agreement is always found in the plural, consequently a case like *sa katā-su atsmā*, "whose hands are strong," shows that we are dealing with a Permansive. The participle of the derived conjugations may, however, take the dual: thus, *ukukh Dunanu S'amahgunu munirridhu* and a variant *munirridā*, "I carried off D. (and) S'. the opposers."

matānu, matātu and *matti*.   It is noticeable that this termi-
nation is not confined to the masculine.   We find it in the
feminine *emukānu* ("deep powers"), *risānu* ("heads"),
khaltsānu ("strongholds"), just as in Hebrew some feminines
like מִלָּה make their plural in ־ִים, or in Aramaic the abso-
lute form of the feminine plural is in -*in*.   Often the oblique
case -*āni* stands for -*ānu*, from analogy with the common
plural-ending -*i*; thus we find *duppa'ani* "tablets," *khaltsa'ani*
"fortresses," *kharsa'ani* "woods," used as nominatives.   The
contracted form -*ān* is occasionally used even when not *in
regimine*.   As in the cognate languages, -*ān* in Babylonian
could be weakened to -*in*.   Thus in Khammurabi's inscription
we find *cilalin* instead of the usual *cilallan* "omnia."

An was irregularly added to the feminine singular to
express a *collection* of anything (Arabic *nomina abundantiæ*).
Thus from the feminine *ebirtu* "a crossing," we have the
plural *ebirtān* ("where crossings are made," "a ford"),
cilatān "all," *pardhutān* "the preceding," *akhratān* (instead
of the ordinary *akhrat* and *akharitu*) "the remainder," "the
future."   Adjectives which have this form are used abso-
lutely as substantives, or rather adverbially, generally follow-
ing the verb, and omitting the preposition *ana* (like *he local*
in Hebrew).   Compare the plural of the numerals from 2
to 10 in Samaritan in ־ִרי.

An old and very rare form of the plural is that which
reduplicates the root.   Thus by the side of *agi* or *age*
"crowns," we have *agagi*.   It is probable that this plural is
of Turanian origin; I have found no true Semitic radix in
which it occurs.

Another old form is that which is preserved to us in *satunu*,

sunu, etc., which seems to have been partly suggested by false analogy with the case-endings of the singular, partly due to the original long *ū* of the third person pronoun. Instances of this Arabicising plural in nouns are to be found in *dilunu* by the side of *dilutu* "door-posts," and *datunu*, which seems of Accadian origin.

Another masculine plural is in -*utu*, -*uti*, -*ut*, like the Hebrew masculines in רֹות, which should be distinguished from the feminine plural. It is employed especially by words derived from verbs לׄה, or which otherwise end with a vowel. It is used by all adjectives, and by the *nomina mutantis* of all the conjugations. Examples are *zicrutu* "males," *nacluti* "complete," *hunut takhazi* "materials of war."

The most common masculine plural, however, was formed by -*e* or -*i*, like the construct masculine plural in Hebrew. It is an instance of the omission of the final nasal similar to that which allowed the mimmation to be dropped. In monosyllabic nouns this plural did not differ in form from the second case of the singular, though an attempt to distinguish it was often made by writing *e* instead of *i*, especially in Babylonian. Indeed the length of the syllable in the case quoted from the Hebrew, and the fact that the plural had been weakened from *ām* (*ān*), would tend to show that there was properly a real difference in pronunciation between the plural-ending and the short vowel of the case-termination. In dissyllables, however, where the accent is on the first syllable, and the second syllable is not long, the two forms were distinguished by dropping the vowel of the second radical in the singular, and laying the accent on the first

syllable, while the plural retained the vowel of the second radical, and placed the accent upon it, which is frequently marked by doubling the third radical; e.g. *nakri* " enemy," *nakiri* " enemies"; *nakhli* " valley," *nakhalli* " valleys." Examples of this kind of plural in monosyllables are *su'uri maruti* " young oxen," *nisi labiruti* " ancient men," *śucci nacluti* " complete houses," *yume mahduti* " many days." Many masculine substantives took both the earlier and the later plural ending: thus we have *sarrānu* and *sarri*, *khaltsanu* and *khaltsi*.

The termination of the feminine plural was twofold. Usually we find -*ātu*, -*āti* or -*āte*, *āt*; e.g. *elātum* " high," *ummanātu* " armies," *khirātu* " wives" (so distinguished from the singular *khirătu* or *khirtu*), *dannāti* " strong," *tsirāte* " supreme," *khutarāte* " rods," *idāt* " forces." This -*ātu* answers to the Æthiopic -*āt* (*āta*), Aramaic -*āth* (in construct), Arabic *ātŭn*, Hebrew *ōth*. Besides this termination of the feminine plural, we also meet with another in -*etu* or -*itu*, -*ete* or -*ite*. Some nouns take both terminations; many, however, are confined to the rarer form, as *esreti* " sacred places," *ruke'eti* " distant parts," *khidheti* " sinners," *anneti* " these." Dr. Hincks conjectures that the latter form was used only in the case of adjectives used as substantives. It is an instance of *a* being weakened to *i* or *e*, which we find in -*an* and elsewhere. It is mostly to be found in Babylonian inscriptions, and may perhaps be ascribed to an Aramaic influence.

Many words, as in the other Semitic dialects, admitted of both plurals, being of common gender. Thus we have *pa'anu* and *pa'atu*, *babi* and *babātu* (" gates ").

It is often uncertain what plural an Assyrian noun took, owing to the employment in the inscriptions of the monogram for multitude in place of the final syllable, which all readers were supposed to be capable of supplying. Sometimes, however, the proper plural was added to this symbol, and sometimes the symbol was not expressed at all.

The Assyrian, like the cognate tongues, possessed but two genders, the masculine and the feminine. The neuter is a refinement upon primitive language, which endowed nature with the life and gender of the subject. The feminine was weaker than the masculine : hence abstracts, in which the notion of life was necessarily harder to conceive than in the case of material objects, were considered as feminines. In this way is to be explained the substitution of a feminine singular with a collective signification for a plural; e.g. *libnatu* "bricks." Many feminine substantives have no distinctive termination, and their gender can only be known from their meaning, from their plurals, or from their being joined with feminine adjectives. Such are *ummu* "mother," *ummanu* "army," *katu* "hand," *uznu* "ear," *khaltsu* "fortress," *lisanu* "tongue."

Those that have a distinctive suffix are of three kinds. Firstly, there are the feminine abstracts in *-ūtu*, as *sarrūtu* "kingdom," which are carefully to be distinguished from the masculine plurals in *-utu*, and which do not admit the plural. Secondly, there is the general feminine termination *-ătu*, *-ăti*, *-ăta*, which may be shortened into *-tu*, *-ti*, *-ta*, where possible. Thus besides *khirătu* we may have *khirtu*, besides *belătu*, *beltu*. Triliterals, in which the second syllable is not long, can drop either this or the vowel of the feminine-

ending: thus, "life" may be either *napsatu* or *napistu*, "fear"
may be *pulkhatu* or *pulukhtu*. Surd roots do not allow this
omission of the -ă, as the final radical must be doubled: thus
from *śar* "king," we may only have *śarrătu* "queen." A third
mode of forming the feminine singular is by -*ĭtu*, weakened
from -*ătu*; e.g. *elinitu* "high." According to Dr. Hincks,
this form is never used in the case of *nomina agentis* or with
surd roots. The same rules that apply to the omission of
the vowel of -*ătu* apply also here, except that surds always
have -*ătu*. Thus we have *binitu* and *bintu* "daughter,"
saplitu and *sapiltu* "low," *makhritu* and *makhirtu* "former,"
tsikhritu and *tsikhirtu* "small." Words ל״ע admit only this
form, as *elitu* "high"; just as from *dannu* we can only have
dannatu. Otherwise both forms are indiscriminately used,
e.g. *ilitu* and *ilătu* "goddess," *belitu* and *belătu* "lady." [1]

The addition of the feminine-terminations often causes a
change in the last radical. *N, d, dh*, are regularly assimi-
lated, as in *limuttu* "injuring" for *limuntu*, *libittu* "brick-
work" for *libintu*, *cabittu* "heavy" for *cabidtu*. So *s, z, ś*,
and *ts* were generally changed to *l*. Thus we have *mikhiltu*
"fortified," besides *mikhitstu* and *mikhtsatu*, *marustu* and
marultu "difficult" (where *ts* has become *s*, as in *risti* for
ritsti), *lubustu* and *lubultu* "clothing."

In one or two instances the feminine termination seems
to have been contracted to *a'*, as in Hebrew, Aramaic, and
Arabic. Thus Dr. Hincks quotes the variant *sukalula* for
sukalulat from Assur-nazir-pal.

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[1] This indiscriminate use of *a* and *i* in the feminine noun is analogous
to the indifferent employment of *sa* and *si* for the feminine relative
pronoun.

The origin of the feminine termination would take us back to the personal pronoun. The Assyrian, like Æthiopic, classical Arabic, Phœnician, and Sinaitic, preserves the archaic *ăt*(*u*), which also appears in the Hebrew חָ֫ה and the construct state, and in the Aramaic construct and emphatic states. In Berber the third personal pronoun is *netta* " he," *netteth* " she," plural *nuthni* (masculine), *nuthnet* (feminine), and the accusative verbal suffix of the third person is -*ith*, -*it*, plural -*ithen*. So the demonstratives are *wayyi* " this " (masculine), *theyyi* (feminine), *winna* " that " (masculine), and *thinna*, *thidhek* or *idhek* (feminine). In Coptic *nethof*= " he," *nethos*= " she," *nethóú*= " they." The Assyrian enclitic -*tu*, -*ti*, which belongs to the pronouns (*sunutu*, *yati*, etc.), and is met with again in the Æthiopic *wĕtu*, *yĕti*, *ĕmuntu*, and, with the plural-ending affixed, *wĕtomu*, *wĕtón*, cannot be separated from the feminine abstract suffix -*utu*, or the ordinary feminine termination -*ătu*, -*ĭtu*. These forms, accordingly, will be like *iste*, an emphatic reduplication of the demonstrative. We have already seen that the primitive Semitic recognized but one root for all the three persons (see p. 41).

The original plural-ending seems to have been -*āmū*, as found in old Arabic *humū*, *antumū*, *kataltumū* ; Æthiopic *kōmū*, *wĕtōmū*, *antĕmū*, *nagarcymmū* ; Aramaic *himmo*, *himmón;* Hebrew הֵ֫מָּה, מוֹ‎-, etc. Arabic has shortened the final vowel, according to its general rule (e.g. *ană* " I," *hunnă*, *kataltŭ*, *kataltă* by the side of Æthiopic *gabarcū*, etc.). So has Assyrian, as in *sunŭ* by the side of *sunutu*, *khaltsānŭ* by the side of *khaltsānŭm*. *Am* has been changed to *ān* in Assyrian, Æthiopic, Himyaritic, and Berber (just as the

mimmation becomes nunnation). So, too, in the Syriac
anakhnan, hynan, "we." This change takes place in As-
syrian even between two vowels, as in *khaltsânu, sunu. Am,
an,* are weakened to *im, in,* in Hebrew and Aramaic; though
the original form seems to be preserved in Hebrew כִּנָּם
"gnats." The Arabic -*înă* would display the same weaken-
ing; *ûnă* appears to be the result of a false parallelism with
the singular case-endings, as though the nunnation were the
same as the plural sign, and cannot be compared with the
verbal -*ânâ* (with which compare Syriac *nekdh'lûnâ-chon,
nekdh'lûnâi(hi),* etc.). The dropping of the consonant in the
Assyrian plurals *succi,* etc., or in the Hebrew construct, is
parallel with the loss of the mimmation, or with the Assyrian
verb-forms *sacnu, sacna, iscunu, iscuna,* for *sacnunu, sacnanu,
iscununu, iscunanu.* The Assyrian dual in -*â,* compared with
the plural in -*i,* seems to have lost a final *m,*[1] which is retained
in Hebrew -*áim,* Aramaic -*áin,* Arabic -*âni* and -*aini,* Syriac
en. The original dual was probably -*â'amu,* expressing by
its long-continued reduplication of the pure primary vowel
the reduplication of the object. So the Botocudos of Brazil
extend *ouatou* "stream," into *ouatou-ou-ou-ou* "ocean," with
the Chavantes *rom-o-wodi*="I go a long way," but *rom-o-o-
o-o-wodi*="I go an exceedingly long way," in Madagascar
ratchi="bad," *ra-a-atchi* "very bad," and still more analo-
gously among the Aponegicrans 6=*itawuna,* 7=*itawu-û-una*
(Tylor, "Primitive Culture," vol. i. pp. 196, 197). Simi-
larly, according to Schott, "six" in the Ural-Altaic
languages is expressed by a modification of "three." Now
a+a=either *â* or the gunated *ai* (p. 35). In Hebrew we

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[1] In Arabic *n* falls away in the dual before the pronoun-suffixes.

find *Dothain* becoming *Dothân.* The plural would have been formed upon the dual, with a contraction of the vowel-sound, as the idea to be expressed by the plural was less definite than that expressed by the dual. The *m* final, inclosing and strengthening the vowel, is to be compared with the mimmation, or with the accusative and neuter in Aryan nouns. We cannot follow the analogy of these, however, in holding that the plural *-m* was attached to the case-endings of the singular, or ever had a separate existence pronominal or otherwise. Here, as elsewhere, Semitic and Aryan procedure was contradictory. A double set of case-endings would have been unmeaning. The form in *-ûn* must be explained differently, as above. The plural imperfect follows in its vowel-endings, not the cases, but the contrasted pronouns *sunu* and *sina* (*sana*). The feminine plural *-âtu* or *-a'atu,* Hebrew *-ôth* (for *-âwath=-âmath*), is formed from the plural *-âm,* which indifferently denoted both genders, by the addition of the feminine termination, exactly as in the singular. *Ât* stands for *-âmat* or *-âwat, m* and *v* being interchangeable in Assyrian. (So *amaru=*אַוּר, *ma=*ו, etc.)

The forms *ebirtân,* etc., are of later growth, in which the plural termination has been attached to the feminine, instead of the converse. The same irregular formation appears in the Æthiopic *wĕtômû, wĕtôn.* This is another point in which Assyrian and Æthiopic grammar curiously agree. The Æthiopic forms are even more exactly paralleled by the Assyrian demonstrative plural *satunu, satina.* For a Samaritan comparison see p. 116.

The Cases.—These are like the Arabic : *-ŭ* nominative, *-ĭ* genitive, *-ă* accusative. Very frequently a final *m* is

added, lengthening the preceding vowel, similar to the nunnation in Arabic. The mimmation, as Dr. Oppert has happily termed it, becomes rarer in the later Assyrian inscriptions. The case-terminations are attached both to the singular and to the plural, to the masculine and to the feminine. They cause certain alterations in the vowels of many forms; and these are as follows. Whenever a long vowel precedes the last letter, or when the word is a monosyllable (provided it be not derived from a surd root), or when the last vowel, though short, is preceded by more than one consonant (as in *sitcun, musascin, niscin*), no change takes place. Thus we have *'ummanātu* (construct *'ummanāt*), *mutu* "man" (construct *mut*), *kitrubu* "midst" (construct *kitrub*). When, however, a root ends in a weak letter, the latter is assimilated to the case-vowel. Thus, from *atsi* "going-out" (feminine *atsitu*), we have *atsu'u*. From *agu* "crown," Accadian *ega*, we get *agu'u, agi'i* or *age'e, aga'a*. So, again, we find *pu'u, pi'i, pa'a*.

In surd roots the construct form is a monosyllable. The case-ending, however, doubles the last consonant; e.g. *šar, šarru; lib, libbu; 'um, 'ummu*. This is really a Palel form of a biliteral; like the Palel triliterals *agammu* "lake" (*agam*), *cidinnu* "ordinance" (*cidin*), etc.

The vowel of the second radical is always omitted before the case-ending in *sacan* (but not in *sacān*), *sicin, sucun,*[1] *sicun,* and in augmented forms like *mustacin,* where the second radical stands between two vowels, the latter of which

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[1] In Babylonian, however, instead of *'uznā*, the usual dual form, we have *'uznā-su* (W.A.S., I. 51, 1, 1, 4). As it occurs at the end of the line, the retention of *ŭ* seems due to the pause and the naturally long syllable *ā*.

is short. Thus we have *kardu* (*karad*), *gimru* (*gimir*), *pulkhu* (*pulukh*), *limnu* (*limun*), *muntakhtsu* (*muntakhits*). It is generally omitted also (especially in Babylonian) in *sacin*, as well as in *sacun*, *sican*, and *siccan* : e.g. *namru* (*namir*), *labru* (Babylonian, but *labiru*, and more archaically *laberu* in Assyrian), *martsu* (*maruts*), *zicru* and *zicaru* (*zicar*), *gisru* (*gissar*). Dr. Hincks believed that a liquid as third radical preserved a preceding *ă ;* hence he would explain *pumalu* "powerful," and *badhalu* by the side of *badhluti* (from *badhil*) "interrupted."

The Construct State.—This is formed, as in Hebrew, by shortening the first word, and so bringing the two words so closely into connexion one with the other, that they may be pronounced in the same breath. The first word is subordinated to the second, which is the source from which the determined idea of the first word is derived. Just as in Arabic *tenwin* is dropped, or in Hebrew the vowels contracted, so in Assyrian the case-ending of the first word falls away. Thus, instead of *sarru sarri*, we have *sar sarri*, "king of kings," *suzub napsati*, "the preservation of life." The determining word has the case-ending -*i*, as in Arabic, as expressing a weakened conception of the direction towards which the mind of the speaker is looking (in this case the direction is that of derivation, origination). The *status constructus* may be replaced, as it often is, by the relative *sa*, when the first word—except in some rare instances from analogy with the *status constructus* [1]—retains its case-ending ; e.g. *sarru sa Assuri*, "king of Assyria": the second word

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[1] In this case the first word is in the *status constructus* before the whole sentence following. According to Philippi, *sa*, in such instances, retains its original demonstrative meaning, and is not a relative.

has either -*u* or -*i*.   So in Phœnician, ש is sometimes sub-
stituted for the *status constructus,* and in Hebrew we may
compare the proper name *Methu-sa-el* "man of God."   D
is used in the same way in Himyaritic, *de* in Syriac, *di* in
Aramaic, *za* in Æthiopic.   The union-vowel (*ă*, in pronouns
i) in the so-called *status constructus* of the Æthiopic cannot
be identified with the *ya* in Amharic, which was originally
the demonstrative *zĕya*.[1]

The case-endings have been already compared with those
of the other Semitic languages (p. 15, *note*).   They form one
of the most striking likenesses between Assyrian and Arabic.
The name is unfortunate, as their use does not correspond to
that of the cases in the Aryan tongues.   The subject-termi-
nation was always -*u* or -*um*, which, accordingly, invariably
appears in the syllabaries as the typical form of the word.
The case-terminations, though short in Arabic and Assyrian,
were originally long.   This is shown in Assyrian by the
mimmation, and by such forms as *icśu'u* by the side of *icśu*
("a door") in the syllabaries.   So in Arabic, we find the
pausal -*ā ;* and both languages have a tendency to shorten
a final vowel (see p. 121).   On the other hand, Hebrew has
long vowels יִ, יְ, הָ, and this language does not lengthen
final short vowels.   So, again, the Æthiopic -*ă* of the accusa-
tive occasionally appears as -*hā*.   In this way, too, must be
explained the long vowel of the Assyrian feminine abstracts
in -*ū-tu*.   The origin of this -*ū* must be assigned to the
same instinct that set apart *u* in the pronouns to denote
the stronger masculine.   The subject, being absolute, was

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[1] Forms like *Penuel*, etc., in Hebrew (p. 15, *note*) go back to the
Arabic, which herein separates itself from Assyrian.

naturally regarded as stronger than a determined case. The accusative ought rather to be called the augment of motion. It expresses the direction to something, or the object to which the idea has travelled. This is best exemplified in the Hebrew use of *he local*. The idea of motion was suggested, it would seem, to the primitive Semite by dwelling upon the pure deep sound of -*ā* or -*hā*, by which the word was lengthened and extended, as it were, beyond itself. This accusative case, needed as soon as a verb appears to distinguish verbal from nominal government, is the oldest Semitic case, and naturally, therefore, the "nearest" vowel.

A, as always in Semitic—in the Assyrian *sa* and *si*, *risu* and רֵאשׁ ex. gr.—is weakened into *i;* hence the so-called genitive -*i*, intermediate between the subject and the direct object, and expressing a weakened kind of motion or direction. This is well exemplified in such Assyrian phrases as answer to the Hebrew *he local*, in which the preposition is omitted, and where, instead of -*a*, we have the weakened -*i;* e.g. *takhazi* "to battle," instead of *ana takhaza*. From the substantive these terminations (primarily strengthened by the mimmation) were transferred to the verbs, without losing their meaning.

The Pronominal Suffixes.—These are as follows :—

SINGULAR.

1st pers. -*ya*, -*a*, -*i*
2nd pers. -*ca*, -*c* (masc.), -*ci* (fem.)
3rd pers. -*su*, -*s* (masc.), *sa*, *si* (fem.)

PLURAL.

1st pers. -*ni*
2nd pers. -*cunu*, -*cun* (masc.), [-*cina*, *cin* (fem.)]
3rd pers. -*sunu*, -*sun* (masc.), -*sina*, *sin* (fem.)

The second person feminine plural has not been found.

The second and third persons masculine singular, after an
unaccented *u,* are shortened to *c* and *s :* e.g. *napistu-s* " his
life." After an accented *u,* a second *u* is generally inserted,
as *tsiru'u-a* " upon me," *yanu'u-a* " I (am) not," or else the
consonant of the pronoun is doubled, as *yanucca* " thou
(art) not," *yanussu* " he (is not)," *tsirussun* " upon them,"
katussu " his hand," *kibitucca* " (it is) thy will," *panucci*
" before thee," *kirbussa* " within it." This reduplication
does not take place after the feminine formative *t,* except in
a monosyllable.

The suffixes can be attached either to the case-endings of
the noun, or to the construct state. In the first instance
they are purely adjectival, in the second the third personal
pronoun is regarded as a substantive. The apparent construct
state with the pronoun suffixes of the first and second persons
is really euphonic. The suffixes of the third person are more
usually attached to the construct; the converse holds good
of the suffixes of the first and second persons. Euphony
comes into play here : four short syllables cannot stand to-
gether, so that we may have either *kiribca* or *kirbica,* just as
we may have *tukmatu* or *tukumtu.*

The suffix of the first person singular is -*a,* or more gene-
rally -*ya,* when the root terminates in a vowel, or has the
case-endings, especially after *i ;* e.g. *abu-a* " my father,"
galli-ya " my servants." *I-a* (=*yā*) might become *ai* in
Assyrian (see p. 35); hence we find *gabrai* " my rivals."
After a consonant -*i* is used; e.g. *ab-i* " my father," *usman-i*
" my army," *bint-i* " my daughter," *kat-i* " my hand,"
raman-i "myself," *assat-i* " my wife." Surd roots doubled
their final letter, as *'umm-i* " my mother." Sometimes, in

the Babylonian inscriptions, -a takes the place of -i, as in ab-a "my father," be'el-a "my lord." With the dual i is employed: e.g. katā-i "my hands."

When the noun ends in d, dh, t, s, ś, z, ts, the third person suffix becomes śu, śa, etc., e.g. khirit-śu "its ditch" (for khirit-su), bit-śu "his house." Still more frequently, the last letter of the noun is assimilated to the ś of the suffix; e.g. khiriś-śu, biś-śu, rupuś-śu "its breadth" (from rupus), libnaś-śu (from libnat). As elsewhere, the reduplication may be dropped, so that we get khiriśu, biśu, rupuśu, rakhaśu (by the side of rakhtsi-su) "his flood," etc.

The plural of masculine nouns attaches the suffix to the plural-ending -i; e.g. kharri-su "its hollows." Following this analogy, the plural in -ānu annexed the pronoun to the oblique case; e.g. sarrāni-su "his kings," instead of sarrānu-su. Compare in Arabic the insertion of i after a word ending in jezma, in the case of watsla (when the next word begins with an elif conjunctionis). Sometimes the pronoun was affixed to the construct -ān: in this case the nasal was according to rule assimilated to the next letter; thus gabrā-su (for gabrās-su) "his rivals," risā-su (for risās-su) "his heads."

In the later period of the language attu, answering to the Hebrew אֹת, Aramaic áth, Arabic 'iyyā, and used in the same way, makes its appearance, with the personal suffixes attached superfluously. The inscriptions mostly afford examples of the first person only: e.g. attu'u-a abū-a "to me (was) my father," sir-ya attū-a "my own race" ("my race (which is) mine," "mon père a moi"), in Hebrew אֹתִי.[1]

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[1] Assur-bani-pal uses attū exactly as in Hebrew to mark the accusative; thus, sa la iptallakhu abi-ya va attū-a, "who revere not my fathers and me."

We find also *attū-ni, attū-cunu*; and the other persons might be restored, *attū-ca, attū-ci, attū-su*, etc.   See p. 15.

THE NUMERALS.

These have two forms, masculine and feminine, as in the other Semitic tongues, and show the same peculiarity of using the masculine of the numerals from 3 to 10 with feminine nouns and the feminine of the numerals with masculine nouns.   Originally the numerals seem to have been abstract substantives, like τριάς, and could take either a masculine or a feminine form.   The feminine was most commonly employed, and so became associated with nouns of the predominant masculine gender.   In Æthiopic (and vulgar Arabic) the feminine is almost exclusively used.

The forms of the Semitic numerals early became fossilised, and hence are almost identical in the various dialects.   Notwithstanding this, the Assyrian cardinal-numbers are more closely connected with the Hebrew than with those of the cognate languages.   *Estin* "one" is found in the Hebrew עֶשְׁתֵּי ; there are no traces of the Æthiopic *cal'a* "two"; and the numeral for "six," like Hebrew, omits the dental, which appears in Arabic and Æthiopic, while the Aramaic consonantal changes in תְּרֵין , etc., find no place in Assyrian.

The cardinals are as follows.—

MASCULINE.	FEMININE.	HEBREW.
1. akhadu, khad-u or khidu, edu, estin	ikhit, ikhtu (for ikhidtu)	אֶחָד , אַחַת
2. sane'e, san'u, sin'u	sanetu	שְׁנַיִם , שְׁתַּיִם
3. salsutu, salsatu	salsu	שְׁלֹשָׁה , שָׁלֹשׁ

Masculine.	Feminine.	Hebrew.
4. irbittu, riba'atu	arba'i, irba'i	אַרְבֵּע, אַרְבָּעָה
5. khamistu, khamiltu	khamsa, khansa	חֲמֵשׁ, חֲמִשָּׁה
6. sisatu	sissu, sis	שֵׁשׁ, שִׁשָּׁה
7. sibittu, sibitu	sib'u, siba	שֶׁבַע, שִׁבְעָה
8. [samnatu]	samna	שְׁמֹנֶה, שְׁמֹנָה
9. [tisittu]	[tis'u]	תֵּשַׁע, תִּשְׁעָה
10. esirtu, esrit, eserit	esir, esru	עֶשֶׂר, עֲשָׂרָה [1]
15. khamisserit (for khamis esrit)		חֲמֵשׁ עֶשְׂרֵה

20. esra'a (Hebrew עֶשְׂרִים); 30. selasa'a; 40. irbahā; 50. khansa'a; 60. sisa'a, sussu; 70. sibba'a; 80. [samna'a]; 90. [tissa'a]; 100. mih (Hebrew מֵאָה); 1000. alapu (אֶלֶף).

The words in brackets have not yet been found in the inscriptions. Generally the cardinals are denoted by symbols; "one" is an upright wedge, "two" two wedges, and so on. "Ten" is expressed by <; 11 by <|; 20 by <<, and so on.

The masculine numeral *estin* is important as throwing light upon the Hebrew עַשְׁתֵּי in 11, which does not appear in the cognate languages. Besides *akhadu*, a theme *khad* seems to exist, which shows itself in the adverb *edis* "only," *edis-su* "by himself." We also have instances in which the Accadian *id* "one" is used, apparently with the value of *khad* or *ed*, as both masculine and feminine, singular and plural. Now *kh* and *e* are interchangeable (see pp. 28, 29) in Assyrian, especially in the case of foreign words, and the Semite often tried to represent the rough Turanian vocalisation at the beginning of an Accadian vocable by the guttural

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[1] *Sh* in Æthiopic.

kh (as in *Idiklat*, חרקל).[1] *Id* or *kat* in Accadian -meant "hand" primarily, so that we are taken back to the time when the savage signified "one" by holding up his hand. As in Hebrew and Arabic, *irba'* interchanges with *reba'*. The form *khamisserit* shows that the Assyrian could contract its numerals like vulgar Arabic, or New-Syriac.[2]

The origin of the Semitic cardinal numbers is a matter of some difficulty. Ewald and others, struck by the superficial resemblance of one or two, *shêsh*, *sheba'*, etc., to the corresponding Aryan numerals, have imagined common roots. But this proceeds upon the assumption of the common parentage of the two families of speech; and even were this granted, we should have no Grimm's Law upon which to base our comparisons. Moreover, there are several numerals which are confessedly unlike in the two classes of languages; and the resemblances in the case of those which are most like are not greater than between *shêsh* and the Basque *sei*, or *irba* and the Mongol *durban*. Nothing, again, is more usual among savage tribes than to adopt different roots at different times to express the same numerals. Thus in English we have " first," " second," " ace," " tray ":[3] and among the Semitic languages themselves, the only trace which Æthiopic presents of the ordinary numeral for "two" is in the words *sanuy* and *sânet*, while it has taken another root, *cal'a* " to divide," to express the idea of duality. The same holds good of *estin* and *'ashtê*. The whole theory, however, has been disposed of by an analysis of the Aryan numerals, which

[1] See my paper on Accadian in the Journal of Philology, vol. iii., No. 5 (1870), p. 39.

[2] Nöldeke, Neusyr. Gramm., p. 152.

[3] Cf. Tylor, Primitive Culture, vol. i., pp. 231, 233.

demonstrates that the original forms of the numbers were widely different from those required to bring them into relationship with the Semitic. Thus "six" (which a similar analysis applied to the Semitic languages shows was primarily *shadash* in them) had originally a guttural at the beginning of the word, now preserved only in the Zend *kshwas*. Professor Goldstücker, taking this word as the starting-point of his investigations, has obtained the following results from an analysis of the numerals. "One" is the demonstrative pronoun "he"; 2 is "diversity" (δὶά, *dis-, zer-*); 3 = "that which goes beyond" (root *tar*, whence *trans, through,* etc.); 4 = "and three," *i.e.* "1+3" (*cha-tur*); 5 = "coming after" (*pan-chan, quinque*); 6 = "four," *i.e.* "(2) and 4" (*kshwas* for *ktwar*); 7 = "following" (*saptan,* ἕπω, etc.); 8 = "two fours" (dual *ashṭau,* ὸκτω, with prosthetic *ǎ, o*); 9 = "that which comes after" (same root as *navas, novus*); 10 = "2+8" (*da-śan, de-cem*).

These results are in full accordance with the facts presented by the Turanian and Allophylian languages generally, and, in short, by all those modern savage dialects which still bear on their surface, unobscured by decay, the primitive machinery of language and calculation. Analogy would lead us to infer that the Semitic tongues formed no exception to this mode of forming numbers, which, so far as it can be analysed, is found to be universal. Calculation is an art slowly acquired; many modern savages cannot count beyond "two" or "three," and we find that this was the case with the ancestors of the highly-gifted Aryan race itself. Once acquired, however, calculation is continually needed: no words are more used than those which denote the numerals;

and consequently no words are more liable to be contracted, changed, and, in short, to undergo all the phenomena of phonetic decay. If we apply this test to the Semitic tongues, we shall find that they fully submit to it. Not to speak of instances like *khamisserit,* or vulgar Arabic *sette* "six," a more pertinent example would be *shêsh* for *shadash.* The Aramaic *tĕrên* shows how an often-repeated word could change its primitive form, and the Æthiopic *cal'a* and Assyrian *estin* remind us of the possibility of co-existing roots. Then another element has to be taken into consideration. We have seen how many words, not to speak of an alphabet, the Semites could borrow from their Turanian neighbours, more especially words like *zabar* "copper" which signified objects communicated by the civilized Accadian to the rude Bedouin tribes.   Now the Accadians had attained a high degree of knowledge of arithmetic and astrology; the great libraries of Huru and Senkereh, formed in the sixteenth century B c., contained tablets of square and cube roots, a developed sexagesimal system, observations of eclipses, and a symbolic numeration. We may therefore expect to find among Semitic loan-words Turanian numerals. Comparative instances among other nations warrant, I think, the following analysis of the Semitic numerals.

Akhadu, found in Assyrian in *akhadi—akhadi* "the one— the other," has already in historic times undergone contraction in the feminine *ikhitu, akhat* for *ikhidtu.* The stronger masculine *a* has been weakened into the feminine *-i,* and this has affected both vowels, according to the vowel-harmony of all savage people.   Now by the side of *akhad* we have Aramaic and Targumic *khad,* and Assyrian *ed(u)* and

khad, represented by the Accadian *'id* (and *kat*) " one" or
" hand." It is difficult not to see here a Semitic modification
of the Turanian numeral, with the prosthetic demonstrative
vowel prefixed in some cases. The other synonyme of "one"
which is found in Assyrian and Hebrew is more difficult to
resolve. *Estin* (or with the case-ending *estinnu*) compared
with *ashté*, has *n* servile, like *terdinnu*, etc. Hence we get
estu as the original word, curiously like the preposition *estu*.
Now this we shall see is from the Accadian *es* " house,"[1]
whence Assyrian *esu'u, essu*, " house," " door," *'ussu, estu*,
" foundation."[2] Can it be also the origin of *estin*, as the
" foundation" or root of all numbers? In *sh'nai* we are
again met by an easily-recognized contraction in the feminine.
This numeral also presents us with an undoubted instance of
the prosthetic vowel in the Arabic *'ithnatain*;[3] while Aramaic
has extended the change of *s* into *t* to a change of *n* into *r*,
and has irregularly formed the plural of the feminine (*tar-
tain*) by adding the plural-ending to the feminine-termination
(like Assyrian forms in *-tān*). *Sh'naim* is clearly " the two

[1] The Accadian *es* is itself resolvable into *e* "house" (literally "the
hollow") and *is* or *iz* "heap," like *mes* "many," from *me* "multitude,"
and *is* "heap."

[2] The same borrowed root has produced the Hebrew אשיש and Arabic
'assun (?). An Accadian synonyme of *Anu* is *Susru*, which is translated
ussusu "the founder," *ru* and *ra* being formatives in Accadian, as in *zana*
and *zanaru* "high," *zicu, zicura*, and *zigaru* "heaven," *s'a* and *s'ara*,
"king," *dudhdhu* and *dadhru* "the deviser" (a title of the Babylonian
Sargon).

[3] This prosthetic vowel meets us in most of the numerals, and is not to
be confounded with the nominal vowel-prefix (p. 110). It is the demon-
strative breathing prefixed in vulgar pronunciation to facilitate the pro-
nunciation of common words. So, according to Wetzstein, the Bedouin
pronounces *kabalatŭn* ordinarily as *k'bálet*, when in the Annexion as
arkăbet ; and compare Greek forms like ὀκέλλω, ἀμέργω, Ὀβριάφεως,
Ὄλυμπος (root *dip*) or the Romance *estar*, etc. (Curtius, Grundzüge d.
Griech. Etymol., pp. 650-5).

folds," from שָׁנָה " to bend " or " fold." *Shalosh* has become
sós-t in Amharic, and Coptic gives us *somn*(*t*), which reminds
us of *sh'moneh* " eight." The root has been supposed to be
שַׁלְשֵׁל : compare *sulu* " a heap," " multitude." *Arba'* or
reba' may have the prosthetic *a*: in this case the root may
be רָבַע " to grow" or "increase." As, however, the Coptic
'ftu " four " is plainly 5—1, from *tu* " five " and *wa* " one,"
so may *arba'* be the remains of some kind of similar composi-
tion. *Khamis* has lost its initial guttural in the Amharic
aumis-t, and has changed it into *s* in the Berber *summus*.
Assyrian shows the varying forms *khamiltu* and *khansa*. Here
the final sibilant would be original, as well as a medial *m*;
the initial was probably a strong guttural, successively
weakened to *kh*, *s*, and *au*. This conducts us to קָמַץ "the
fist," " five " being expressed in most languages by some
word meaning "hand" (with its five fingers).[1] The next
two or three numbers after 5 would be, according to the
analogy of other languages, compounded out of two preceding
numerals; and accordingly we find the names of 6, 7, and
8 all beginning with *s*. This raises the presumption that
we may here find either *sh'nai* or *shalosh*. Most of the Allo-
phylian tongues, however, form 6 not by means of 2, but of
1 or more generally 3; and the fact that the Semitic dialects
give *three* successive numerals with an initial *s*, excludes the
employment of *sh'nai*. Moreover, the most natural way of
forming " six " was by saying " three-three." We have
already seen that the more primitive form of *shêsh* was
shadash, as in Arabic and Æthiopic, or Berber *sedis*, Amharic

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[1] So the Malay *lima* "hand" =5 ; the Zulus call 5 *edesanta* "finish
hand;" with the Tamanacs of the Orinoco *amgnaitóne* " whole hand" is 5.

sedis-ṭ. Coptic has reduced the original word to *soü*. If *shalshal* were the primary form of *shalosh*, repeated to express number, like the plurals of Allophylian languages, the only part of the word used in composition would be *shal*. *D* and *l* were interchangeable in old Semitic (as in דוש and לוש, רעד and רעל); hence *sad-sad*, contracted into *sadas* " six." To distinguish it from 3, the dental was retained in 6, the labial in 3.[1] If our theory be right, we ought to detect "four" in the termination of the name of 7. And this we do in *sheba'* "seven," where the final *ba'* unmistakably refers us to *arba'*. *R* throughout the Semitic tongues has a tendency to interchange with *e* on the one side, and a long vowel on the other. Both of these may be shortened, as in Assyrian *ĭ* for *e*, and *Dĭmasku* by the side of דרמשק (see p. 111). The *l* of *sal(as)* had already been assimilated to *r* and its representatives. In Coptic, 7 is *shasf* for *shasft*, in which *'ftu* "four" is recognizable by the side of *shas* (*shalas*) "three." This is better than to make *shasf*=6+1, especially as 6 is *soü*. *Sh'moneh* again discovers *sal(as)*: it ought to be compounded with *khamis*. Now the consonants of *sh'moneh*, besides the fluctuations of the initial between *ś* and *s*, shown also by the other numerals, are not quite fixed, even in the historic period. In Markhes van "the 8th month" (in Assyrian *arakh samna*), the word has been shortened to שון; and in Berber (*tem*) the final nasal has been lost altogether, the sibilant becoming *t* as in *thanat* "two." *Khamis*, we saw above, has lost the guttural in Amharic, and *kh* is very frequently dropped in Assyrian, or replaced by a vocalic *e*

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[1] So in Accadian *essa*=3, *as*=6; and, according to Professor Schott, 6 in the Ural-Altaic languages is expressed by a modification of 3.

(see p. 29). The final ה of the masculine shows that the word was originally generally pronounced with a final *t;* hence we may expect some change in the *s*. *S* became *l* (through *r*) in Assyrian, and a comparison of *terén* or *p'šant'rin* and the Æthiopic *dent* (for *delt*) would seem to show that *l* and *r* once, before a dental, regularly became *n*. That this was the case with the numerals is made likely by the Coptic *somnt* "three," which would stand for *solst* (*ol* passing into -*om*, or rather *ou*, before *n*); and just as *somnt*= *solst*, so would *shmen*(*t*)=*shmes*(*t*), *m* being preserved by the intervening vowel. *Shal*, as we saw before, would have already become *sho*. Following still the analogy of other languages, 9 ought to be 10—1. In *tésha'* we have, I believe, *khad* (*ed*) or *est*(*u*), more probably *est*(*u*). *Êsa'* points to a long initial syllable, such as *e*. This gives us the first two radicals of *eser* "ten." *R*, especially when final, has an intimate relation to *e* in the Semitic languages; Arabic grammarians explain *e* by *r* combined with a guttural. Hence *ésa'* may well stand for *eser*. The last word is from אסר (whence the Assyrian god Ussuru) "to bind together," referring to the combination of the two hands. *Méah* is obscure: it has been derived from *maim* "water," or from the Arabic *ma'i* "to be wide." Its origin, however, is best explained by the Accadian *mih*, which is interpreted "assembly" (*kālu*), "mass" (*tamtsu*), and "herd" (*ram-cutu*). *Eleph* is "a head of cattle."

The only ordinals hitherto found in the inscriptions are *ristānu* "first" (Hebrew *rishón*) and *salsa* "third," formed like the ordinals in Hebrew (*shéni*, etc.). Dr. Oppert restores the other Assyrian ordinals, *sana, rib'a, khansa,* etc.

A formation in *yānu* similar to *ristānu* was used to express relations of time : thus *saniyānu* " the second time," *salsi-yānu* " the third time."

Fractions were formed as in Hebrew (*khomesh*, etc.) and Arabic by the form *sucun* or *sucnu*. Thus we find *sunnu* " one half," *sulsu* " a third," *sumunu* " an eighth," *sussu* " a sixth." *Sussu* is also used for " a sixtieth," whence the *sóssos* of Berosus, which we may translate " a minute." Dr. Oppert restores the other fractions *rub'u* " a fourth," *khunsu* " a fifth," *sub'u* " a seventh," *tus'u* " a ninth," *'usru* " a tenth." The Babylonians expressed their fractions with a denominator of 60. Thus 20, $40 = 20 \frac{40}{60} = 20 \frac{2}{3}$. This discovery is due to Dr. Oppert. Besides *sulsu*, the Assyrians also used *sussānu* for " a third," from the Accadian *sussana*. *Sinibu* was $\frac{2}{3}$, from the Accadian *sanabi* ("forty"), and *parapu* was $\frac{5}{6}$, apparently also Accadian, though *kigusili* seems to have been the usual term for the fraction in that language. *Sussu*, meaning 60, was also Accadian. *Baru* or *māsu* was $\frac{1}{2}$. According to Abydenus a *sarus* = 3600 years, a *nerus* = 600, and a *sossus* = 60. In the inscriptions a *ner* is denoted by a wedge (= 60) followed by the symbol of 10. All this notation, together with the symbols which expressed it, was derived from the Accadians.

Among the indefinite numerals may be reckoned *mahdutu* " much " (מאד), *calu*, *cullat*, " all " (כל), *gabbu* " all," *gimru* " the whole " (גמר), *cabittu* " much " (כבד).

" Repetition " is expressed by *sanutu* (*sanitu* in Achæmenian, e.g. *saniti salsa* " the third time ") and *rubbu*. " Anew " is generally *ana essuti*.

The measures of length were $\frac{1}{3}$ inch = $\frac{1}{60}$ of an *'ammu*, 6

'ammi ("cubits")=1 canu (קָנֶה), 2 cani=1 sa or ribu, 60
sa=1 sus, 30 sussi=1 kasbu or "day's journey." Time was
divided into 6 kasbu(mi) of the day and 6 of the night, a
kasbu being = 2 hours. The year contained 12 months of
30 days each, together with an intercalary Ve-Adar. At the
end of certain cycles there were also a second Nisan and a
second Elul. According to the lunar division, the 7th, 14th,
19th, 21st, and 28th were days of "rest" (sulum), on which
certain works were forbidden; and the two lunations were
divided each into three periods of 5 days, the 19th ending
the first period of the 2nd lunation.

The tonnage of ships was reckoned by the gurru; thus
we have ships of 15 and 60 gurri.

According to Dr. Hincks, the iku was $=4\frac{3}{10}$ grains, 30 iki
=1 cibu (129 grs.), 60 cibi=1 maneh (mana), 60 manehs=
1 heavy talent (bilatu) (950,040 grs.). Half a talent, or a
light talent (of 30 manehs), was the biru or tsiptu (479,520
grs.). The talent was according to the standard either of
Assyria ("the royal talent" or "the talent of the country")
or of Carchemish. Money was weighed, and there was a
different talent for gold and for silver.

For measures of capacity the Assyrians possessed the lagit
or log of 3 standards, which contained respectively 10, 9,
and 8 subdivisions called ka. Land and grain were equally
measured by this lagit (tuv), whose fractional parts are given
as the baru (or "half"), the aru, and the arrat. The arrat
was also a measure divided into the "baru of wood," and the
"baru of stone," and the latter into ka.

THE PREPOSITIONS.

These are generally shortened roots; and, not being part of the stock of the primitive Semitic speech, naturally differ in the different dialects, which have set apart various substantives more or less stereotyped to express the relations of the several parts of a sentence.

In Assyrian the simple prepositions are :— *ana* " to," " for"; *ina* " in," " by," " with" (instrumental); *inna*, " in "; *innannu*, " from "; *itti* " along with; " *ultu* or *istu* " from " ; *adi* " up to"; *ela* " over"; *eli* " upon"; *elan* or *illan* " beyond" ; *assu* " in," " by," " on account of " ; *cuv* " instead of"; *ullanū* " before"; *ullanumma* " upon"; *'illamu* " before"; *tiq* " behind," " from," " of"; *pan* " before"; *sa* " of"; *baliv*, *balu*, " without" ; *ema* " around," " over " ; *elat* " except"; *dikhi* " opposite "; *nir* " below," " near," " against"; *erti* " against"; *sepu* " below"; *'ulli* " among"; *mikhrit* "among"; *ci-la* " without"; *saptu*, *cibit*, " by the help of"; *sikharti* " throughout"; *nemidu* " towards "; *arci* " after "; *tsir* " against," " upon "; *illu* " upon" ; *birid* and *cirib*, *kirib*, " within "; *akhar* " behind"; *makhri* " before"; *ci* and *ci pi* " according to (the mouth)" ; *cima*, *tuma*, " like " ; *limet*, *li*, "near"; *sar (im)* " from "; *ana sar* " to." Most of these are still used as mere substantives, as *sepu* " foot," *nir* " foot," *mikhrit* " presence," *tiku* " rear," some being adjectives, as *tsiru* " supreme," " above," and one, *sa*, the relative. *Itti, ci, adi*, and *eli* agree with the Hebrew; but Ewald's explanation of the final -*i* from the final ה of the root will not hold, as the Assyrian in that case would be -*u*. It can hardly be the plural, again, but, as in *arci*, will be a case-ending, like *li* and

bi in Arabic.[1] *'Adi* stands for *edi*, like *agu* and *egu*. *Cum* is *cumu* "heap." *'Assu* is rare, and is apparently of Accadian origin. *'Ina* and *'ana*, with their lengthened forms *inna* and *'anna* (?), are objective cases of the old nouns *'inu* and *'anu*, *'ina* being identical with the Hebrew יַעַן from עָנָה.[2] In *ultu* or *istu* the case-ending is abnormally retained (so *assu*). *Ultu* is formed from the Pael, *istu* from the Kal, of אוש, אש, perhaps=יש, like אות, *tu* being the feminine suffix.[3] *Ulli, ullānu* are rather from the Pael of עלה, than from the pronoun *'ullu;* so also *'illamu* (for *elamu*) and *elat*. *Neru* is properly "yoke," *sepu* "foot," *saptu* "lip." As in the cognate languages, *ci* is generally used instead of *cima;* we also find sometimes *li, an, el,* and *it* (see p. 10). Before a vowel the final vowel of the preposition is rarely elided, as in *ult-ulla* ("from that"=) "from old time," *ad-ussi* "to the foundations."

Attū, the Hebrew אֵת, with the accusative of the pronoun, is found only in the later period, and bears witness to the Aramaising of the language.

The compound prepositions are numerous. Thus we meet with *ina cirib* "in the midst of"; *ina libbi* "in the midst of"; *ana itti* "to be with"; *ultu pani* "from before"; *ultu cirib, ultu libbi,* "from the midst of"; *ina pan* "from before"; *ina suki* "in front of"; *ina bibil, ina biblat, bibil,*

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[1] This is borne out by the existence of other cases like *balu, saptu,* *'ana, ela, ema* (=עַם), etc., and the occurrence of the mimmation in *baliv.* So, too, words like *tigulti,* when used as a compound preposition with *'ina,* show the same fact. Cf., on the contrary, Philippi, Wesen u. Urspr. d. Stat. Const., p. 107.

[2] According to Philippi, *'ina* is a weakened *'ana* from the demonstrative root *'an(nu).*

[3] See, however, p. 135, in which case *istu* would=*estu* from אשש, like *assu* perhaps (p. 9).

biblat, "in the midst of"; *ina khatstsi* "in the time, presence of"; *ina nirib, nirib,* "near"; *ina eli* "above"; *ina la* "for want of"; *ana la* "not to be"; *ina tsat* "after"; *ana erti* "to the presence of"; *ana sar* "to"; *lapan, lapani,* "from," "before"; *ina anni* "at this (time)"; *ina adi dhemi* "by command of."

Lapani is hardly identical with the Hebrew לִפְנֵי, as the preposition is *li,* not *la;* and we cannot assume a change of vowel, such as we have in Hebrew *ló* (= *la-hu;* so Æthiopic *la*). *Li,* however, is contracted from *limet, limu* (לוה). From the same root comes *lamu* "a clay-tablet," and in this way I would explain *lam* or *lav* in an inscription of Assur-izir-pal, where we read *lav samsi napakhi* "close upon sunrise." From this *lav* we get *lā* in *lapan.*

THE INTERJECTIONS.

Of these I have only noticed *'a* "O," and *ninu* "behold," *ninu-su* "behold him." We may add also *adu* "now," "thus."

THE ADVERBS.

These, like the prepositions, are fossilised noun-cases. Generally the accusative is the case used, as in Æthiopic and Arabic. Thus we have *belā* "copiously," *bazza* "as rubbish," *palcā* "amply," and most adverbs of place and time. The (original) mimmation is also found (as in Hebrew and Arabic). Dr. Oppert quotes *cusvam* "in a covert manner," *rub'am* "greatly," *cainam* "strongly." Rarely the second case is employed instead of the third; e.g. *batstsi* "in ruin,"

makhri "before," *arci* "afterwards." The mimmation is also found here; e.g. *labirim(ma)* "of old (and)," "through decay (and)," by the side of *labaris*.

The most common mode of forming the adverb in Assyrian is by the termination *is*. Dr. Oppert has happily explained this by the contracted third personal pronoun attached to the second case, which is here used as though a preposition had preceded. This actually appears in some rare cases, e.g. *ana daris* (see further on). Analogous are the Æthiopic adverbs formed by the third pronoun suffix, like *kadim-û* "first," *cant-û* "in vain." Dr. Oppert refers also to the Hebrew כְּלִוֹ. Everywhere the inscriptions offer us words like *rabis* "greatly," *ezzis* "strongly," *namris* "brightly," *abubis* "like a whirlwind," *naclis* "completely," *elis* "above," *saplis* "below," *cacabis* "like a star." Sometimes the adverbial termination is attached to the plural in *-an*; thus *tilanis* "in heaps," *khurśanis* "completely," *sadanis* "like mountains." In the last case, as often elsewhere, the adverbs preserve old forms which have been lost in the noun.

The most common adverbs of place and time are as follows:—*Umma* "thus," "that"; *ai-umma, ya-umma*, and *umma . . . la*, "never"; *umma assu* "because"; *allu, alla, alla-sa*, "then," "afterwards"; *sa,.ci-sa*, "when"; *eninna* "again"; *arci* "afterwards"; *adi* "till"; *zis* "as of old"; *tsatis* "in future"; *ina yumi suma* "at that time"; *makhri, panama* "formerly"; *matema* "in times past"; *lu-mahdu, lu-mad*, "much"; *sanumma, sanamma*, "in a foreign land," "elsewhere"; *cihâm* "thus"; *calama* "of all kinds"; *enuva* "at that time," "when"; *ultu ulla* and *ullâna* "from that time," "from of old"; *udina* "at the same time."

Alla and *alla-sa* are only found in the Achæmenian period. So also is *'aganna* (from *'aga*) "here."

Lumadu (so *sanumma*) is like the Arabic adverbs which end with -*u*.

THE CONJUNCTIONS.

U and *vā* "and" (" et "), *vă* "and" (" que "); *'ŭ* "or"; *mā* "for," "and "; *ai* "not" (with the imperative or precative); *lu* "whether," "thus" (verbal prefix of past time); *ci, cî*, "when," "while," "if "; *sa* "when," "because," "that "; *la* "not"; *ul* "not" (only with verbs, except in the Achæmenian period);[1] *inu* "behold," "now "; *ma* "also"; *mā* "that" (for *umma*); *ina matima* "in any case"; *sa matima* "of what place ? "; *im* "if"; *im matima* "if at all "; *adi-sa, adi-eli-sa,* "in so far as "; *assu* "when "; *summa* "thus," "when "; *ci* "as "; *libbu-sa* "just as."

Adi-eli-sa and *libbu-sa* belong to the Achæmenian inscriptions.

After verbs *a* is sometimes found instead of *vă*, especially if the vowel *u* has gone before (see p. 27).

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[1] The two negatives are derived from the demonstrative *'ullu, 'ulla.* The first half of the word, being the more emphatic and full of meaning, was appropriated to the verbs, and (as in Hebrew) had a prohibitive force; the second part of the word was conjoined with the noun, where the negative was less clearly brought out.

THE SYNTAX.

Speaking generally, the syntax of the Assyrian language agrees with that of the other Semitic dialects.

OF THE NOUN.

In the oldest inscriptions, and in a large proportion of those belonging to the later Assyrian period, the case-endings are for the most part carefully observed, -*u* as nominative, -*i* as genitive, and -*a* as accusative. Even in later Assyrian, however, -*u* is sometimes used for the accusative, and even -*a* for the nominative; *e.g.* Assur-bani-pal has *libba-sunu* nominative. So in Egyptian Arabic -*iñ* is found in the accusative, and -*añ* in the nominative, and -*i* for all cases in the *status constructus*. Similarly the Bedouins use -*i* and -*a* to prevent the concourse of consonants, and use -*a* for all the cases before plural-suffixes. *Tanwin* occurs in poetry when it cannot be used in prose. Compare Italian *loro* from *illorum*, and the Persian animate plural -*ān* originally a genitive.

The mimmation, especially frequent in Babylonian, was purely euphonic, and descended from a period in which none of the cases ended in an open vowel.

In the Babylonian the cases are all confused more or less with one another, and have ceased to express fully their flexional meaning. We even find *bit sarru* "house of the king," *dumku* in the accusative, *libba* in the nominative.

The accusative follows a verb. The genitive is used after a governing noun or a preposition, which is merely an old worn substantive.

The *status constructus* is carefully observed. Before a governed noun the case-ending is dropped. Cases like *rabbi bitu* are plural. Only expressions which have come to be used as compound prepositions are excepted; e.g. *ina tukulti* for *ina tuklat* (like *eli, adi*).[1] But even this exception does not occur in the oldest period. Anomalies, like *bucurti Anuv* "eldest daughter of Anu," are exceedingly rare. Conversely, when several short syllables come together, the *status constructus* is found after a preposition without a genitive; thus, *ana gŭrănĭt* by the side of *ana gurunte* (but. see p. 30). The short final ĭ was peculiarly liable to be lost in pronunciation as its case-meaning became weakened. A word is sometimes defectively written when the next word begins with the same vowel, the two really coalescing, as is probably the case in *bucurti Anuv* above.

The old plural-termination -*ān* very frequently retained the case-ending -*i* in the *status constructus*, partly from a confusion with the contracted, but more usual, plural in -*i*, and partly because -*i* is a weakening of -*a*, the original mark of the object. It must be remembered that the case-endings are older than the *status constructus*, hence we may find them sometimes anomalously retained when the *status constructus* had come to imply the loss of them in the first noun, as in Hebrew *yod compaginis*, or the Ethiopic accusative-ending -*a*. Compare too the pronoun-suffixes.

The first noun may be used without the case-endings before an adjective, when the latter is employed as a substantive:

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[1] This short *i* had so far lost its original flexional signification as to be regarded as simply euphonic (see p. 153). It must also be remembered that in many cases the *i* is a mark of the plural, and that the euphonic *i* is only found after (ă)*tu*.

e.g. *ipparsu asar la-hári* " they fled to (a place of the un-
fruitful=) the desert," *dhudat la-hári paskáti* " crooked
desert morasses."

The *nomen agentis* is used like any other substantive when
in regimine.

The adjective always follows the substantive, both having
the case-terminations; e.g. *sarru rabbu* " the great king."

When the substantive has a pronoun suffixed, the adjective
still retains the case-ending ; e.g. *kat-su dannatu* " his strong
hand."

Abstracts are rare ; hence a substantive expressing the
possessor or subject is followed by another substantive ex-
pressing the attribute ; e.g. *bel-khiddi* (" the lord of the
rebellion "=) " a rebel "; *bel ade* (" lord of homage "=) " a
subject"; *nis rucubi* (" the man of chariots"=) " the
charioteers " ; *er sarruti-su sa Arrame* " his royal city of
Arramu."

These compounds have often become so closely united, that
when the plural is required, it is sufficient to attach the
plural-termination to the second part of the compound only.
They may be still further compounded by prefixing the nega-
tive particle, as *Surri la-bel-cuśśu* " Surri, a usurper."

The adjective agrees with the gender of its substantive.
Sometimes, however, the substantive is of two genders; e.g.
babátu rabbatu and *babi rabbi* " the great gates."   Where the
substantive has not the feminine-ending in the singular, the
gender can only be determined by the accompanying adjec-
tive, which must always have the appropriate termination.

The adjective in certain rare cases may precede its noun :
in this case the case-endings are dropped; thus *halicet idi*

gamarri "marching bands of troops." Really, however, it is here a substantive in the *status constructus*. If the noun is dual, the adjective is plural : e.g. *halicut idā-su* "his marching bands."

To supply the want of abstract adjectives a substantive in the genitive is often found ; as *hunut simi mahdi* ("furniture of great price" =) "costly furniture."

There are no special forms for the comparative or superlative. They are expressed by the positive with *istu* and *ina*: e.g. *rabu ina ili Uramazda* "Ormuzd is the greatest of the gods" ("great among the gods is Ormuzd "). The superlative may also be represented by a repetition of the adjective; e.g. *bilat mahda-mahda* "tribute very abundant," *asar dandanti* "a very strong place" (see p. 107).

Two substantives may be placed in apposition (the substantive verb being omitted) so as to qualify one another. In this case both have the case-endings: e.g. *bilutu Assur* "the lordship of Assyria" ("Assyria as a lordship "), *pulkhu adiru melam Assur* "exceeding fear of the attack of Assur," *abni khipisti sad Khamani pil-su usatritsa* "stones dug from Mount Amanus, the choice of it, I arranged."

A few nouns are collective in signification, (1) those which denote an individual out of a class, as *rucubu* for *rucubi* "chariots"; (2) feminine abstracts as *libittu* (*libintu*) "bricks"; and (3) measures and other arithmetical terms, as *esri mana* "20 manehs."

Nisu ("man") in the sense of "every one" is often used in this collective way; e.g. *nis sa mat S̆ukhi ana mat Assuri la illicuni*," none of the S̆ukhi had gone to Assyria."

The plural is used as in Hebrew to express extension of

space or time and their parts, e.g. *mie* "water," *pani* "face," *cirbi* "the interior" (as a permanent state).

The genitive often expresses the object as well as the subject; e.g. *zicir sumi-su* "the memory of his name," *sallat eri* "the spoil from the cities."

Geographical names replace apposition by the genitive; e.g. *mat Dimaski* "the land of Damascus." When the *status constructus* is replaced by *sa* ("of"), the first noun retains the case-endings: thus *kharitsa sa er-ya* "the ditch of my city." Rarely a feminine plural after a preposition may have the case-ending -*i* before the following noun (as though it had become a compound preposition); e.g. *ana taprāti cissat nisi* "for the delight of multitudes of men." Compare *yod compaginis* in Hebrew.

As in *ipparsu asar* "they fled to a place," an accusative of motion may follow the verb without a preposition; this is regularly the accusative, but the second case is sometimes found instead (as in the *status constructus*); e.g. *takhazi itsa* "he went forth to battle."

The later Aramaising stage of the language is marked by an increasing use of prepositions; thus *ana* becomes, like Aramaic ﾟ, a mark of the accusative; e.g. at Behistun *aducu ana Gumātav* "I had killed Gomates."

Just as the prepositions are old accusative cases, standing for the most part in the *status constructus*, so substantives may be used absolutely as accusatives of limitation: e.g. *illicu resut* "they went ahead," by the side of *sa ana resuti sulucu.*

OF THE NUMERALS.

As in the other Semitic languages, the cardinals from 3 to

10 use the masculine with feminine nouns, and the feminine terminations with masculine nouns; e.g. *ciprātu irba'i* "the four regions," *elip khamis gurri* "a ship of 5 tons." This rule is rarely transgressed, as in *tupukatu irbittu* "the 4 races."

The cardinal (in the plural) may be placed before a following noun in the genitive in the place of the ordinal; the second noun being in the singular; e.g. *ina salsi garri-ya* "in my third campaign."

The plural masculine follows all the numerals (except in the case of arithmetical terms, measures, etc., when the singular is used) (so 2 Kings ii. 16); e.g. *esritu alpi* "20 oxen"; but *esri mana* "20 manehs."

The measures are often preceded by the preposition *ina*, followed by the sign of unity: e.g. CC *in* I. *ammi* "200 cubits," which Dr. Oppert has well explained as meaning 200×1 ("by 1").

In dates, first comes the day, then the month, then the year, each followed by the numeral, and preceded in many cases by *ina*.

"About" with a numeral is expressed by *istu;* thus *ina elippi sa ina khuli istu* XX. *i(dh)dhulā-ni ina er Kharidi nahra Purat lu etebir*, "in ships, which on the sand about 20 in number were drawn up in Kharid, the Euphrates I crossed."

OF THE PRONOUNS.

The personal pronouns are used by themselves to express the substantive verb; e.g. *anacu sarru* "I (am) the king," *summa ina mati-ya sunu* "when they (were) in my country."

Occasionally the personal pronouns are found attached to

a noun in the sense of the demonstratives, though really in apposition; e.g. *ina cise babi sināti* "in the niches of these gates" (literally "gates even them"), *khuśpa-sū eli sa ina yumi pani usarbi* "that masonry above what (it was) in former days I enlarged." So *usamkhar-ca cāta* "I capture thee, even thee."

The third personal pronouns singular and plural may stand at the beginning of a sentence absolutely, to call attention to the subject of the clause: as *sú ci pi'i annimma istanappara umma* "he, according to my dictation, sent word that;" *sū asaridu cabtu* "he, the glorious chief;" *sū Khazaki'ahu pulkhi melamme belluti-ya iśkhupu-su* "him Hezekiah, the fears of the approach of my lordship overwhelmed him;" *sū Elamū ala . . . sanamma ebus-su* "he, the Elamite another city built." So also *yāti.*

The possessive pronouns with the substantive verb are replaced by the personal pronouns with *eli* preceded by *ana* and *ina.*

When it is required to give emphasis to the third personal pronoun plural, a substantive form *sunuti* or *sunut* (*sināti, sinat*) is used, which is not attached as a suffix to the verb, and accordingly sometimes stands before it; e.g. *usalic sunuti* "I made them go," *sinati birid sallat-zazati ultil* "them within the image-gallery I placed," *paldhut sunuti icsud* "he took them alive," *tsabi sunuti . . . uratti* "the soldiers, even them (=those soldiers), I threw down," where the emphasis is laid upon the object. *Sāsunu* sometimes takes the place of *sunuti;* e.g. *sāsunu adi nisi-sunu . . . aslula* "them and their men I carried off." So *sāsu* and *sāsa* in the singular.

The verbal suffixes may be either in the dative or the

accusative: e.g. *usaldidu-ni* "they caused to be brought to me," *ana ebisu Bit-Saggadhu nasa-nni libb-i* "my heart is raising me to build Bit-Saggadhu."

The pronominal suffixes may be regarded as independent nouns requiring the *status constructus*, or as simple adjectives.[1] Euphony has much to do in determining this question, and the suffixes of the first and second persons are generally used with the case-endings (the accusative excepted). Speaking generally, the second case-ending is very rarely dropped. The masculine plural in -*ut* is employed without the case-endings of the nominative and accusative, monosyllabic roots excepted. The singular *ut* drops the case-endings of the nominative and accusative, and if the second syllable is long (as in *cidinnut*), of the genitive also. The feminine plural (*ātu*) always retains all three case-endings, unless the first two syllables are short, or the last radical is doubled, when the accusative case-ending may be omitted. *Itu, etu,* also retain all the case-endings. So does the feminine singular (*ătu*), except in the case of monosyllables and roots derived from verbs ע״ע, which always drop -*u*, generally -*a*, and very often -*i*. The plural in *ān* always drops the terminations; monosyllables excepted, which retain -*i*. Ordinary triliterals retain -*i*, generally drop -*u* (which, if retained, is lengthened), and always drop -*a*, unless the noun is used as a preposition, when *a* is lengthened in Assyrian (e.g. *cibitassu*,

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[1] Rather, perhaps, in apposition. It is not quite correct to say that the pronoun suffixes of the first and second persons are independent nouns, and the apparent *status constructus*, whenever used with them, is due to the euphonic law which forbids three short syllables to come together, or else is the result of contraction, as in *ab-ă=abw-a* or *aba-a*. As in other languages, *u* and *a* have generally been weakened to the so-called connecting vowel -*ĭ*.

but Babylonian *cerba-su*). The participle, however, retains the terminations. If the word is a quadriliteral, the case-ending may be kept, as *asur-sin* and *asurru-sin*. Mono-syllabic roots more usually retain the case-endings, which may be lengthened; and roots ין almost invariably do so.

When two nouns are so closely united as to form but one idea, the personal suffix is attached to the second noun; e.g. *kharudh sarruti-ya* "the sceptre of my kingdom" (="my royal sceptre"). This takes place even when the nouns are in apposition, as *papakha beluti-ya* "the shrine of my lord-ship."

The pronominal suffix is frequently added pleonastically to the verb at the end of the sentence; and sometimes the singular (expressing "the whole of it") refers to subjects which are in the plural; thus *sallut-su va camut-su ana er-ya Asur ubla-su* "his spoils and his treasures to my city Asur I brought it (=them)," *hunut takhazi-sunu ecim-su* "their materials of war I took them (it)."

The demonstrative pronouns always follow their substan-tive, which generally retains the case-endings.

The relative ordinarily requires the noun following as well as the verb to have a pronominal suffix attached: e.g. *Yahudu sa asar-su ru'ku* "Judah, whose situation (is) remote" (lit. "of which its situation (is) remote").

In this way the oblique cases of the relative are formed, as *sa ina abli-su* "upon whose son."

The relative pronoun may be omitted, as in Hebrew or English; e.g. *sarru . . . tanambu zicir-su* "the king (whose) memory thou proclaimest;" *miri eri nirmaq va namkhar siparri . . . bilata va madatta issa'a amkhar* "works of iron,

a tray (?) and an offering of copper . . . the tribute and gifts (which) he brought I receive;" *itti kari ab-i iczuru* " with the castle (which) my father had made ; " *assu khultuv ebusu* " on account of the wickedness (which) he had done."

The relative is frequently used absolutely at the beginning of a sentence, as *sa ana natsir citte va misari-su . . . inambu-inni ili rabi* " as regards which (city) for the protection of its treaties and laws . . . the great gods proclaim me." Hence its adverbial use, as *sa . . . ina cuśśi sarruti rabis usibu* " when on my royal throne pompously I had sat."

The other pronouns may be used in the same absolute way; e.g. *annute cappi-sunu ritti-sunu ubattiq* " as regards some their hands (and) their feet I chopped off."

The relative generally follows its antecedent, thus interpolating a parenthesis between the latter and the verb which goes with it; e.g. *Sa-duri danānu epsētu sa ili rabbi isimu-inni isme'e* " Sa-duris the mighty works, which the great gods established for me, heard of."

In the Achæmenian period we find the relative when used as a sign of the genitive standing before its governing noun ; thus, *sa Cambuziya aga-su akhu-su* " the brother of this Cambyses " (lit. " as regards which Cambyses, him, his brother," where the addition of the demonstrative shows what a purely genitival mark *sa* had become). This use is traceable to the absolute employment of the relative at the beginning of a sentence ; *e.g.* in Sargon's inscription *sa Ambariśśi malic-sunu damikte Sarru-cinu imsu* " as regards whom Ambaris their king has the prosperity of Sargon despised." So in Æthiopic and rarely in Arabic and later Hebrew.

The personal and demonstrative pronouns are often included

in the relative; in the vulgar dialect this may even take place when *sa* is used for the genitive: e.g. IV. *mana caśpi ina sa Gargamis* "4 manehs of silver according to (the maneh) of Carchemish."

The indeterminate relative is sometimes omitted in the subordinate clause, even when it is placed first; e·g. *ikhkhira abdhu amattu sa pi'i-su ustennā* "(whoever) evades (his) pledge, the truth of his mouth changes."

When there is no definite antecedent, the third personal pronoun is very often used in the singular in the sense of "people"; e.g. *usalic-su* with variant *usalic-sunuti, usalmi-s* "I caused the people to approach," *edis pani-su ipparsid* "alone before them he fled." So also *si*; e.g. *ana bit cili la isarrac-si* "to the store-house he does not (=shall not) deliver them" (*i.e.* columns and other palace-decorations).

In the Achæmenian period the loose use of the genitive with *sa* allowed a personal pronoun to be placed before its antecedent pleonastically; e.g. *la Barziya anacu abil-su sa Curas* "I (am) not Bardes, the son of Cyrus."

The later inscriptions occasionally use the third personal pronoun masculine for the feminine; e.g. *dicta mahád-su adduc, zirtare-sa* "her many soldiers I slew, her pavilions," etc. So in the Law-tablet *inaddu-su* "they place her." Conversely *sa* is used incorrectly for *su* before *a* following; e.g. *damkatu epusús-sa aspuru ittakhta-su insi* (for *imsi*) "the benefits (which) I had done him (and) had sent to his aid he despised."

Occasionally the pronoun is omitted after the verb; e.g. *yusannā' yāti* "he repeated (it) to me."

OF THE VERBS.

The third person masculine is sometimes used for the feminine (but not until the later days of the Assyrian Empire); e.g. *Istar . . . ana ummani-ya sutta yusapri-va ci'âm icbi-sunut* " Istar . . . to my soldiers a dream disclosed and thus said to them." So on the Law-tablet *ictabi* is used with *assatu* (" woman "), but as *su* is also found for *sa* or *si*, the translation from the Accadian was probably made by a person who was but imperfectly acquainted with the Assyrian language. Dr. Oppert well compares the want of a third person feminine in the precative; e.g. *si' limut u anacu lubludh* " let her die and may I live."

On the other hand, in the second person plural there is a tendency to substitute the feminine for the masculine form: thus, Tiglath-Pileser I. says of " the great gods" (*ili rabi*) *aga'a tsira tuppira-su* " the supreme crown ye have entrusted to him." This is especially the case in the Imperative; e.g. *halca* " go ye," *khula* " rejoice," and even *duca'ah* " smite," all with masculine subjects. The last instance, however, would suggest another explanation of this anomaly, that the final *a* is the subjunctive-augment, like הָ Cohortative in Hebrew. In this case the preceding *u* will have coalesced with *a* into *â* or *ah*, as in *issa'a=issa-va* (*issa-ua*) or *aba= abu-a* (*abwa*).[1] This actually happens in *sima'a* by the side of *sime* " hear thou." In this way we may explain the ungrammatical use of the second person imperative with the relative at Behistun, in *mannu atta sarru sa bela'a arci-ya*

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[1] Cf. *yuraps-inni* for *yurapsu-inni* (=*yurappisu-inni*). See p. 27.

" whoever thou (art), O king, who rulest (goes on ruling) after me."

If the first nominative be feminine, the second masculine, the verb, though in the plural, is generally feminine; e.g. *si va ili abi-sa tabbu'u sum-i* " she and the gods her fathers proclaimed my name."

When a singular noun has a collective signification, it may be followed by a plural verb; thus *lillicu-s suppu-ca* " may thy speech come to him."

The Imperfect of the other dialects has been split up into four tenses (as in Æthiopic into two): the Aorist, which is the one most commonly found in the historical inscriptions; the Pluperfect (often used, however, for perfect and aorist); the Present; and the Future. The Perfect, originally a present participle, has a permansive signification (see pp. 52, 62). Thus *bilata ascun* " tribute I established "; *sa Asur . . . kati yusatmikhu* " which Asur had caused my hand to hold "; *an sunne uzun-su isacanu-va libba-su imallicu* " to his two ears shall he put (it) and his heart shall rule "; *ina uppi tarappits* " in the dust dost thou lie down."

The subjunctive is used (1) when the accusative follows the verb, (2) is found in conditional sentences, and (3) is often attached to roots which contain *l* or *r*; e.g. *yutsalla'a beluti-ya* " he submitted to my lordship "; *icnusa ana neri-ya* " he submitted to my yoke "; *sa epusa* " which I had made "; *aslula* " I carried off "; *aspura* " I sent."

In many cases, however, the final *a* is the conjunction, for *va*. See p. 27.

After a conditional particle a Pluperfect generally follows; e.g. *sa amkhuru-si* " when I had invoked her."

The Hortative sense of the Subjunctive augment is confined to the Precative and Imperative; e.g. *lillica* "may he go," *sullima* "accomplish."

The Conditional Suffix is generally attached to the Perfect, and follows the relative and such particles as *ci* ("when") expressed or understood; e.g. *sa Asuru va Ussuru . . . ikisu-ni* "which Asur and Ussuru had entrapped" (at any time); more rarely it is attached to the Precative, as *ana yāsi va zirritti-ya ciribta dhabita licrubu-ni* "to myself and my seed may they give good fealty." Here the prayer depends upon the unknown conditions of future time. Occasionally the suffix is found with the Permansive, as in *ci utsbacu-ni* "while I was stopping." When *sa* is expressed, the pronominal suffix of the verb is inserted before the subjunctive-enclitic; e.g. *sa nisini . . . Pitru ikabu-su-ni* "which the men . . . call Pethor," *sa abilu-sina-ni* "which (countries) I have conquered."

When the future occurs by itself in a conditional sentence and after a relative, it expresses the certainty of the event which is looked forward to; e.g. *ci bitu-rabu ilabbiru-va innakhu* "when this palace shall grow old and decay" (as it certainly will), *cī takabbu'u umma* "if thou shalt say at all" (="whenever thou shalt say").

The Present is often, as in other languages, used for the Future and Imperative: e.g. *umpici la tasaddiri impuci la takabbi* "*umpici* (rubies) thou dost not write, *impuci* dost not say" (*i.e.* do not write and say), *tanadhala ana epis sassi asar panu-ci sacnu tebacu anacu* "thou shalt carry off to make spoil, (to) the place (which) before thee is set I will come," where the subjunctive augment after the Present in the

sense of the Future or Imperative and the emphatic position
of the pronoun are to be noticed.

The Imperative may also be used for the Future; e.g.
bukhkhir umman-ca dica'a caras-ca Bab-il "select thy army,
strike thy camp, O Babel" (for "thou shalt select," etc.).

In comparisons the aorist is used as an iterative present (as
in Greek), what happens at any time being conceived to have
already taken place on some definite occasion; e.g. *cima
Ramanu izgum* "as the Air-god pours."

The substantive verb is usually omitted : *e.g.* in the Law-
tablet *ul assati atta* (for *atti*) "thou art not my wife."
When *existence* has to be expressed, in place of *yahu, basu* is
generally used (e.g. *mal basu* or *mala basu* "as many as
exist"), which Dr. Oppert has acutely compared with the
Æthiopic *bisi* "men." *Isu* (𒌝) is also used in the same
sense : e.g. *sanin su la isu* "a rival to him there was not";
but more commonly this verb includes the idea of possession,
as *isi* "may I have" (*ai isi naciri mugalliti* "may I not
have enemies multiplied").

The Infinitive, as a verbal noun, may have either the
verbal or the nominal side brought most prominently for-
ward. More usually the former is the case, the infinitive
governing an accusative like the verb, and therefore retaining
the case-endings; e.g. *ana sadada madata* "to bring tribute,"
ana episu Bit-Saggadha "to the building of Bit-Saggadh,"
ana pakadav cal dadmi "to preside over all men." To the
same use must be referred the absolute employment of the
infinitive in negative sentences; e.g. *ina la bana* "in the
doing of nothing" (*i.e.* while I had leisure), *adi la basi'e*
"until there were no more" ("up to the not being"), *ana la*

tsabate "not to be taken," where it answers to the gerundive; *ana la tsibate-su* "that he might not take it," *ana la casad-i ina mati-su* "in order that I might not get to my country" (where the *construct Infinitive* is used). Often, however, the Infinitive is employed like any other noun in the *status constructus* without the case-endings, as *ana epis ramani-su* "to the working of himself," *epis buhri* "the making of snares."

Much of the same nature is the employment of the abstracts in *t* servile with a relative and a verb; e.g. *ina ta'aiarti sa alic* " (it was) at (my) return that I went."

Not unlike the use of *waw consecutive* (see p. 69) is the use of *va* to join a Pluperfect and an Aorist, in the place of a conditional clause; e.g. *itsbatūni-va emuru* "when they had taken they saw." The Permansive may take the place of the aorist, *va* becoming a true *waw consecutive*; e.g. *itsbatūni-va . . . tebuni* "when they had taken they are continually coming."

As in the other Semitic languages, the idea of intensity or continuation is expressed by attaching to the verb, as object, a verbal noun formed from the same root, like the Infinitive Absolute in Hebrew; e.g. *dicta-sun aduc* "their slayables I slew," *khirit-su akhri* "its ditch I dug," *sipic . . . aspuc* "a heap I heaped up," *amsukh misikhta* "I measured its dimension," *ikhtanabbata khubut nisi sa Assur* "he is ever wasting the wasting of the men of Assyria," *ilbinu libitta* "they made bricks." Sometimes the noun is accompanied by *ana* ("for"); e.g. *batuli-sun va batulâte-sun ana sagaltu asgul* "their boys and maidens I dishonoured"; sometimes by *cima* ("as"); e.g. *Bit-Amucāni cima dai'asti ades bukhar nisi-su* "Bit-Amucani, like a threshing-floor, I threshed the glory of its men."

11

The position of the verbal noun is generally before its verb: when continuance is implied, however, it stands after the verb (as in Hebrew), and the verb sometimes has the subjunctive augment. Herein the Assyrian marks itself off from Arabic, which regularly places the Infinitive when it expresses intensity after the verb, and attaches itself to Hebrew and Syriac. The Æthiopic usage agrees throughout with the Assyrian.

A verbal noun in *m-*, without the case-endings, may be used to express an adverb; thus *marab urabbi* "greatly I enlarged." It may also be used to express a participial clause; e.g. *utsabbita mutstsa-sun* "I captured the exit of them (=them as they were going out)."

A compound verb is often formed by שכן with a substantive attached; e.g. *takhaza ascun* "I made battle" = "I fought," *hapicta-sunu lu ascun* "I effected their overthrow" = "I overthrew them."

Two verbs in the same tense may be joined together without a conjunction to express a compound idea; e.g. *irdu'u illicu kakkar tsummi* "they descended, they went (to) dry ground," for "they came down to;" *illic enakh* "it went on decaying." So *'alacu* is used with *labaris* to form a compound idea: *labaris illic* "it became old."

The Participle present active is generally used as a noun, in the *status constructus*; e.g. *da'is matani naciri* "the trampler upon hostile lands," *semat ikribi* "hearer of prayers," *alic pani-ya* "going before me."

It may, however, preserve its full verbal character, and in this case it retains the case-endings; e.g. *la palikhu zicri beli* "not worshipping the memories of the lords."

Occasionally it is used as a finite verb, as in the proper names *Musallim-Ussur* "Ussur (is) a completer," *Mutaggil-Nabiuv* "Nebo (is) an auxiliary," *cullat aibi mupariru* "all enemies he (is) crushing."

Often it bears a relative signification; e.g. *munaccar sidhri-ya . . . Asur . . . nacris liziz-śu* "the defacer of my writing (=if any one defaces) may Asur in a hostile manner constrain."

The passive participle sometimes has the meaning of "able to be —," "ought to be—"; especially the Pael participles of concave verbs; e.g. *dicu* "what can be slain," *la niba* "what cannot be counted," *pu'u ussuru* "a mouth that should be bound."

The participle may be used in the singular as a collective noun, and so take a plural verb; e.g. *itti dagil pan Asuri* "with those who trusted in Asur" (literally "him trusting in Asur"), *racibu-sin dicu* "their charioteers were being slain," *nisi asib garbi-su . . . illicu* "the people dwelling within it went," *lamaśśi û alapi sa abni . . . natsiru kibśi musallimu tallacti* "colossi and bulls of stone guarding the treasures (and) completing the corridors."

The indeterminate third person is expressed by the third person plural, as *sa ina lisan Akharri Bit-Khilāni isaś-śu* "which in the tongue of the West Bit-Khilani they name," *ana mat Nizir sa mat Lullu-Cinipa ikabu-su-ni akdhirib* "to Nizir, which they call Lullu-Cinipa, I drew near." In a conditional clause the particle may be omitted, as *lū ana ziga yusetstsu'u* "or (if any one) expose to harm."

This third person plural is also used impersonally (like צָרַר in Hebrew) ; e.g. *kharsānu sakūtu epis buhri-sunu ikbi'uni-su*

"it had been ordered him to make snares in the thick woods" (literally "the thick woods (for) the making of their snares they had appointed unto him"), where the double accusative must be noticed. The singular may be employed in the same way; e.g. *allacu khandhu . . . illicav-va* "by a long journey (one) came and," *yusapri'* "(one) revealed."

All transitive verbs in Shaphel and Shaphael take two accusatives; e.g. *dura daliv palri Samsi-utsani Babili usaśkhir* "a high wall round the fords of the Rising Sun of Babylon I built." Many intransitive verbs may take an accusative of cognate meaning; e.g. *illica urukh mu'uti* "he went the path of death."

Verbs of motion may take an accusative of direction without a preposition; e.g. *illicu ritsut-su* "they went (to) his help," *zacut Ninua . . . utir asru-ssa* "the laws of Nineveh I restored its (=their) place," *cisittu sad caśpi . . . alic* "(to) the acquisition of the silver mountain I went."

Verbs of *filling, giving, finding*, etc., take two accusatives; e.g. *Assuru . . . malcut Lasanan yumallu'u katassu* "Assur has filled his hand with the kingdom of the world," *sa Maruduc bel-a yumallu'u gatū-a* "with whom Merodach my lord has filled my hand," *dahtu imkhar sunuti* "the gifts he received them," XXII. *er-khaltsi . . . iddin-su* "22 fortresses he gave him," *sa itstsuru mubar-su la ibah* "which (mountain) a bird (for) its crossing finds not," *Bit-Saggadhu va Bit-Zida zannan ustetesser esret-i* "Bit-Saggadhu and Bit-Zida (to) restore I directed my direction" (literally "I caused Bit-Saggadhu and Bit-Zida to direct my course to restore," where *zannan* for *zannana* is the accusative of direction). The last instance will show how general the use of two

accusatives is when one of them expresses an idea cognate to that of the verb: e.g. *sa masaq Ilu'u-biahdi khammahi itsrupu* "who had burned the skin of Ilu'u-biahdi with heat," *sa limniv va aibi itsannu imat mūti* "which repel the injurious and wicked (by) the fear of death."

As in all languages, the Assyrian affords instances of *constructio prægnans*, especially with צבת ("to seize") used as a verb of motion, as *dur-su itsbat* "he fled to his fortress," *ana casad-i ana mat Madai* "for my getting to Media."

The derived conjugations sometimes change the meaning of Kal; thus Dr. Oppert instances from שמע the Istaphal participle *mustisme'u* "he who governs" (= "causes to hear himself"), and from כשר ("to possess") the Pael *cassadu* "make to approach." So in Niphal פלם "to weigh," but נפלם "to be favourable"; תגל "to serve," but נתגל "to trust."

With compound nouns, when the governing·word is in the singular, and the genitive in the plural, the verb follows the number of the latter; e.g. *zabil-cudurri iscunu-su* "the magistrates (dwellers of boundaries) appointed it."

This is universally the case with *cal, cala, cullat,* and *gimir,* when followed by plural genitives (or, in the case of *cala,* nominatives); e.g. *sa cala simi u etsi kharrusu* "where all plants and trees were cultivated."

OF THE PARTICLES.

Originally the case-endings, the meaning of the verb, and the position of the noun, expressed those modifications of space, time, and relation which a later period of language

more closely denoted by prepositions. Thus we find in the inscriptions the second case used occasionally without a preposition to express motion to a place (see p. 150).

The idea of "change," "result," "object," is expressed by *ana* with the accusative; e.g. *ana tulle u simmi itur* "it became (crossed over to) heaps and ruins," *er su ana essuti abni* "that city anew (for a change) I built," *ana suzub napsati-sun ipparsidu* "to save their lives they fled."

For the Achæmenian (Aramaising) use of *ana* to denote the accusative, see p. 3.

The following idiom with *ana* is noticeable : *me va tehūta baladh napistiv-sunu ana pi'i yusacir* "water and sea-water (to) preserve their lives their mouths drank" (literally "water and sea-water, the preservation of their lives, to their mouths it drank," where *yusaccir* is used impersonally).

Ina frequently denotes the instrument, like the Hebrew בְ ; e.g. *ina katti ramani-su* "by his own hands"; *ina epiri icatamu* "with dust shall cover."

It also bears the signification "into" with certain verbs; e.g. *ina neribi-sun . . . erub* "into their lowlands I descended."

The use of *ina* and *ana* with כָּשַׁר "to take," "occupy," is noticeable. Thus we have *ana la casad-i ina mati-su* "that I might not find myself in his country" (by the side of *ana casad ina matati satina*), and *ana casad-i ana mat Madai*, "on my getting to Media."

In one passage of Sennacherib (Grotefend's Cyl., l. 50) the preposition is actually placed after its noun : *abni sadi danni itti nahra ibbā aćsi* "with strong mountain-stones the clear stream I concealed." Probably it shows the influence of the Accadian. We may compare such sub-Semitic dialects as

that of Harar, in which the substantive regularly takes a postposition, and in which the determining word is actually placed before the determined.

Ultu is used to express "(exacting punishment) from"; e.g. *ultu Assuri tirra ductē abi* "from Assyria bring back the slaughter of (thy) father," *i.e.* revenge thy father's death upon Assyria.

Ultu is sometimes used adverbially for "after that" "from the time when" (with *yumi sa* "the day whereon" understood); e.g. *ultu bit-rabu . . . ana ribat sarruti-ya usaclilu* "after that I had caused the palace to be finished for the greatness of my sovereignty," *istu ibna-nni Maruduc ana sarrūti* "from the time when Merodach created me for sovereignty."

Adi "up to," comes to have a conjunctive signification as denoting how far the objects pointed out extended; e.g. *nisi adi maruti-sunu* "men and children" (="up to their children"), *sarrani matat Nairi adi sa niraruti-sunu illicuni* "the kings of the countries of Nairi, including (those) who (to) their aid had gone."

Itti may be used in the sense of "(revolting) from" (="breaking with") or "against"; e.g. (*S'ute*) *itti-ya yuspalcit* "(the S'uti) from me he alienated," *icciru itti-ya* "they revolted against me," *idinu dēni itti Urtaci* "they gave judgment against Urtaci."

As in Hebrew, a preposition which has been employed in the first member of a clause may be dropped in the second; e.g. *er suatu ana la tsabate va dur-su la ratsapi* "this city not to be occupied and for its wall not to be built."

The following idiomatic use of *sa* and *assu* with the infini-

tive, which has been well explained by Mr. Norris, is notice-
able, "*sa limnu la bane paniv* " that the evil-doers may not
make head" (literally "on account of the evil-doer the not
making head"), and *assuv aibi la bane paniv*, where our
idiom "to make head" curiously coincides with the Assy-
rian.

The adverbs in *-is* may pleonastically be preceded by *ana*,
thus confirming Dr. Oppert's conjecture as to their origin ;
e.g. *ana daris likkura* "to futurity be it proclaimed," *ana
daris yucinnu* "for ever they established," *isallu'u an nahris*
"they rolled as in a river."

The negative *la* is put before a noun (substantive or adjec-
tive) to form a negative compound, as *la-mami* " the want
of water," *la-magiri* "disobedient," *la-khaddu* "unerring."

Ul is put only before verbs, but it does not possess the
prohibitive force of לֹא in Hebrew. In the Achæmenian
period *ul* has come to be used like *lā* with all words ; thus
ul anacu, ul zir-ya.

The negative particle of prohibition or deprecation is *ai*,
which in Æthiopic ('*i*) is the common negative, from אֵין
(Æthiopic *yn*). It is rare in Hebrew, and found only in a
few compounds. Instances in Assyrian are *ai ipparcu'u idā-sa*
"may its defences not be broken," *ai isi naciri* "may I not
have enemies." Compounded with the indefinite *umma* at the
beginning of a sentence, with *ul* or *nin* following imme-
diately before the verb, it signifies "no one whatever" (as
aiumma ina bibbi-sunu asar-su ul yumassi'i-va susub-su ul idi
" no one among them touched its site, and undertook its
settlement "). Hence, the force of the negation lying in the
second negative, *aiumma* has come to have a purely indefinite

sense when used alone; e.g. *lu aklu . . lu aiumma* "whether a chief or any one whatever."

The substantive verb with the negative may be expressed by the substantive *yānu* "not-being" (יִאְן), the different persons being denoted by pronominal suffixes; e.g. *manma yānu* "any one there (was) not," *yanu-a* "I (am) not."

The conjunction after a verb takes the form of the enclitic -*vă* (like the Latin *que*); e.g. *sa bitrabi sātu tuvlū-sa ul ibsi-va tsukhkhurat subat-sa* "of that palace its mound was not, and its site was small," *urukh Accadi itsbatuniv-va ana Babila tebuni* "the path of Accad they had taken, and to Babylon had come." The short enclitic throws the accent back upon the last syllable of the verb, which is therefore lengthened, and accordingly has often a second *v*. A preceding *b* may become *v*, as in *eruv-va* for *erub-va*.

· The enclitic is sometimes contracted into *a* simply (for *wa*), just as *abu-a* may become *ab-a*; e.g. *alpi tsini bilata va madata issa-a amkhar* "oxen, sheep, tribute, and offering he brought, and I received." This contraction may take place even after a consonant, especially a liquid, and may readily be mistaken for the subjunctive suffix (see p. 56, *note*): e.g. *remi paldhute yutsabbit-a ana er-su Asur yubl-a* "the wild bulls alive he took, and to his city Asur brought, and," *asar-sa usarda'a* "its place I deepened, and."

With substantives and clauses *ŭ* is used, also *vā* (only after vowels).

The conjunction is sometimes omitted both with nouns and verbs; e.g. *ili istari sātunu* "those gods (and) goddesses," *same irziti* "heaven and earth," *appal aggur in isati asrup* "I overthrew, demolished (and) burned with fire"; *ina*

akhi 'apli imri-a " amongst the brethren (or) sons of my family," *sū cizu-su . . . yuptatekhu akhai* "he (and) his sword-bearer cut open one another."

When a verb is followed by a substantive so that they form but one idea, *vă* may irregularly be placed after the latter; thus *attitsi ina giri-ya-va aśukhra Azi'il* " I turned aside in my course and outflanked Aziel."

The same happens even if the first clause has only a substantive verb understood, but not expressed; e.g. *sa cimasāsu-va icciru* " who was like him and had revolted."

In the Achæmenian period *vă* is ungrammatically found between two nouns; thus *mati saniti-va lisanu sanituv* "other lands and another tongue."

-*Va* may sometimes take the place of *yusannā'* " he repeated," as in *isaśi-va umma* " he told thus," where some verb like *ikbi* " he said " is understood after the enclitic.

Lū is prefixed to verbs to denote past time (like *kad* in Arabic); e.g. *lū allic* " I went." If the first syllable of the verb is *u* or *yu*, the two vowels coalesce into one; e.g. *lusardi*.

In Babylonian and Achæmenian it is joined with nouns; e.g. *anacu lu sarru* " I (am) the king."

Lū also signifies " whether " or " either "—" or," and as such is found before nouns and clauses; e.g. *lū nuturda lū itū lū aiumma . . . lū ana ila yusasracu lū ana ziga yusetstsu'u* " whether *nuturda* or *itu* or any one . . . either to a god shall give or to harm shall expose."

Lū (Aramaic לוּי, Arabic *lau*) is like *limeti*, *li* (Aramaic לְוָת " at ") from לוּה " to adhere," hence " immediately," " union," " if."

The indefinite *umma* (as in *aiumma*, *manumma*, etc.)

(Arabic *anna*) in later inscriptions introduces a quotation with the meaning "thus," "that"; e.g. (*Istar*) *ikbi-sunut umma* "Istar told them that."

Im "if" is frequently followed by *matima* ("in any case") with the indefinite pronoun ("any one") sometimes understood before the verb. Occasionally we find *im* omitted, and only *matima* used. In the Law-tablet we have *ana matima* in imitation of the Accadian original; *ana matima mut libbi-su ikhuśśu* "in every case a man has full power over his child."

The conditional particle (*ci* or *im*) is not unfrequently understood, though the enclitic *-ni* is generally added; e.g. *yutsu-ni ner-ya itsbut* "(when) he came out, he took my yoke." Even the conditional augment (*ni*) may be omitted; e.g. *sa lā agru'u-su igranni* "who (when) I did not make war with him made war with me."

In one passage *ci* seems to mean simply "then," "accordingly,"—*Umma-khaldāsu emuci-su cī yupakhkhir*, "Umma-khaldasu then gathered his forces."

Summa "thus" occasionally takes the place of *im*; e.g. *summa assatu mut-su . . . iktabi* "if a wife (to) her husband say" (literally "thus," with "if" omitted).

Yumu "day" may be used absolutely, without a preposition, with "when" (*sa*) following omitted; as *yumu annitu emuru* "the day he had seen that dream."

The preposition which denotes the instrument may also be omitted; as *katā û sepā biritav barzilli iddi* "(his) hands and feet (in) fetters of iron he laid."

PROSODY.

The order of the sentence is most commonly subject, object, and verb at the end (as in Aramaic). But the object very frequently follows the verb, especially when it has a suffix, and sometimes even the subject. Often a noun with a preposition comes after the verb, but its usual place is after the object or subject. The genitive circumlocution with *sa* is in some few instances placed at the beginning of the sentence with the subject following. Conditional and relative words always begin the sentence. Relative sentences are usually intercalated between the subject or object and the verb. The pronoun *sunuti* or *sunut* regularly ends the clause.

A dislocated word like *isme-va* in *isme-va cisitti eri-su Cudur-Nakhundu nis Elamū imkut-su khattuv* "Kudur-Nakhundu the Elamite heard of the capture of his cities, and fear overwhelmed him," is due to the blunder of the illiterate engraver, who inserted the word in the wrong place.

The Assyrians, like other nations, had their poetry; but little of this has been preserved to us, the religious hymns which we possess being literal translations of Accadian originals.* From the following purely Assyrian specimen of psalmody, however, it will be seen that Assyrian poetry corresponds to Hebrew; it was characterized by the same parallelism, and affected the same play upon words.

FIRST STANZA.

(1) *Ilu Ussur bel 'a-ba-ri | sa su-par-su dan-nu-su*

(2) *ana Sarru-cinu sarra gasra | sar Assuri*

(3) *ner-ebid Babili | sar Sumiri u Accadi*

(4) *ba-nu-u cu-me-ca | si-bu-ut padh-si-su*

    (5) *lis-ba-a bu-h-a-ri.*

* Cf. Lenormant: "Essai de Commentaire des Fragments des Bérose," Frgt. xx.

O Ussur, lord of the wise, to whom (is) beauty (and) power [of
whom (is) his beauty (and) his power],
For Sargon mighty king, king of Assyria,
High-Priest (yoke-servant) of Babylon, king of Sumiri and Accad,
Build thy store-house, the dwelling of his treasure,
May he be sated with (its) beauties!

SECOND STANZA.

(1) *ina ci-rib Bit Ris-Sallimi | u Bit S'er-ra*
(2) *cin pal-su | cin-ni irtsiti su-te-si-ra*
(3) *sul-li-ma tsi-in-di-su | su-ut-lim-su e-mu-kan la-sa-na-an*
(4) *dun-nu zic-ru-ti | galli-su su-udh-bi-va*
    (5) *li-na-ar ga-ri-su.*

In the midst of the Temple of the Head of Peace and Bit-S'erra
    (*i.e.* in peace and good fortune)
Establish his course of life: the stability of the land direct;
Make perfect his harnessed horses; confer on him the powers of
    the world,
Even greatness (and) renown; his servants make good, and
        May he curse his foes!

Here the double parallelism is very exact. Notice, too,
the lively change of subject, and the semi-rhyme at the end
of each stanza. The play upon *cin* and *cinni* plainly refers to
the name of *Sarru-cinu*.

Before concluding, it will be well to select one or two
inscriptions for analytical translation.* The first that I shall
take is an Invocation to Beltis (W.A.I., II. pl. 66, No. 2):—

I. (1) *A-na(el) Beltis bel-lat ma-*
tāti[1] *a·si-bat*[2] *Bit-Mas-mas* D.P.
(*el*) *Assur-bani-'abla sar mat Assuri*
rubu pa-lukh-sa (2) *ner-ebdu*[3] *bi-*
nu-ut[4] *katā-sa*[5] *sa ina ci-be-ti-sa*
rabitav[6] *ina kit-ru-ub*[7] *takh-kha-zi*[8]

I. (1) Ad Beltim dominam terra-
rum, habitantem Bit-Merodach, As-
surbani-pal rex terræ Assyriæ prin-
ceps adorans-eam (2) pontifex crea-
tura manuum-ejus, qui secundum
jussa-ejus magna in vicinitate prœlii

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* The figures in parentheses refer to the lines in the inscriptions; the
superior figures refer to the analyses on pp. 175, 176, 177.

*ic-ci-śu*⁹ (3) *kakka-du*¹⁰ D.P. *Te-umman sar mat Nuv-va-(ci)*¹¹ *u* D.P. *Um-man-i-gas* D.P. *Tam-ma-ri-tav* D.P. *Pa-h-e* D.P. *Um-man-al-das* (4) *sa arci* D.P. *Teumman ebu-su*¹² *sarru-ut*¹³ *mat Nuv-va-(ci) ina tu-gulti-sa rabbi-tav ka-ti*¹⁴ *acsud śu-nu-ti-va* (5) *ina* D.P. *pidni*¹⁵ *sadadi*¹⁶ *ru-du*¹⁷ *sarru-ti-ya atsbat-śu-nu-ti u ina zic-ci*¹⁸ *sa cabtu-ti ina cul-lat matati* (6) *illicu'u-va gab-ri ul isu'u ina yumi-su ciśal bit* D.P. *Istari bellati-ya ina pi-e-li*¹⁹ *es-ci*²⁰ (7) *si-cit-ta-su*²¹ *u-sar-bi' a-na sat-ti* D.P. *Beltis ciśala su-a-tav pan ma-khir-si* (8) *uc-ci'*²² *ya-a-ti* D.P. *Assur-bani-abla pa-lakh*²³ *'il-u-ti-ci raba-ti baladh*²⁴ *yumi sadadi* (9) *dhub lib-bi itti sim-ma itallacu Bit-Mas-mas lu-lab-bi-ra sepā-ya.*

decapitavit (3) caput Teummani regis terræ Elamidis; et Umman-igas Tammaritu Pahe Umman-aldasim (4) qui post Teumman fecerat regnum terræ Elamidis auxilio ejus magno manu-meâ vici eos, et (5) in jugo immenso curru regali-meo cepi eos; et in famâ gloriæ in omnibus terris (6) ive-runt * et rivales non fuerunt. In die-eâ aram templi Astartis dominæ-meæ ex cælatione-laboratâ cœlavi (7) sculpturam-ejus. Auxi (eam) ad voluptatem Beltis. Aram hanc ante præsentiam-ejus (8) sacravi. Meipsum Sardanapalum adorantem divinitatem - tuam magnam vita dierum longarum, (9) bonitas cordis, cum stabilitate consequuntur. Bit Merodach diu-maneat sub-me.

I next select a short private contract of the year 676 B.C. (W.A.I., III. 47, 5):—

II. (1) {*bilat* / *ticun*}¹ *eri saki*² (2) *sa ana 'ilati Istari sa er 'Arb'-'il* (3) *sa* D.P. *Man-nu-ci-'arb'-'il*³ (4) *ina pan* D.P. *Maruduc-akhe-sallim* (5) *ina arkhi Ab id-dan-an*⁴ (6) *sum-ma la-a id-di-ni*⁵ (7) *a-na* III. *ribata-su-nu*⁶ *i-rab-bi-'u* (8) *ina arkhi S'ivan yumi* XI. (9) *lim-mu* D.P. *Bam-ba-a* (10) *pan* D.P. *Istar-bab-cam-es* (11) *pan* D.P. *Ku-u-a* D.P. *Sarru-ikbi*⁷ (12) *pan* D.P. *Dumku-pan-sarri* (13) *pan* D.P. *Nabiuv-rub-abli.*

II. (1) Talenta ferri optimi, (2) quæ (sunt) danda deæ Astarti urbis Arbelæ, (3) quæ Mannu-ci-Arbela (4) in præsentiâ Merodach-akhe-sallim (5) in mense Ab (Julio) tradit, (6) si non reddiderint (ea) (7) quadrantibus usuris augere-faciunt. (8) In mense Maio die XI. (9) eponymo Bambâ (10) teste (ante) Istar-bab-cames (11) teste Kûa (et) Sarru-ikbi (12) teste Dumku-pan-sarri (13) teste Nebo-rub-bal.

* The story of my conquest of them has become famous everywhere.

My next selection is Sennacherib's private will (W.A.I., III., 16, 3) :—

III. (1) D.P. *S'in-akhi-er-ba sar cis-sa-ti*[1] (2) *sar mat As-suri esiri khuratsi tu-lat karni* (3) (*gil*) *khuratsi a-gi esiri itti sa-a-ti* (4) *du-ma-ki*[2] *an-nu-te sa tu-lat-iu-nu* (5) *abna ibba ina abna* (*likh-khal*) *abna za-dhu*[3] | (6) I. (*bar*)[4] *ma-na* II. (*bar*) *cibi*[5] (*dhu*) *ci sakal-su-nu*[6] (7) *ana* D.P. *Assur-akhi-iddin abla-ya sa arcu* (8) D.P. *Assur-ebil-mucin-'abla sum-su* (9) *na-bu-u cī-i ru-hi-a* (10) *a-din cisat-ta*[7] *Bit* D.P. *A-muk* (11) [D.P. . . .]-*iriq-erba ca-nu-ur-a'-ni*[8] D.P. *Nabi*.

III. (1) Sennacherib rex legionum (2) rex terræ Assyriæ armillas aureas, cumulos eboris, (3) poculum (?) aureum, coronas (et) armillas cum his, (4) bonas-res illas, quarum (sunt) cumuli-earum, (5) crystallum præter lapidem . . . (et) lapidem aviarium : (6) I. (et) dimidium minorum, II. (et) dimidium *cibi* secundum pondus-eorum (7) Essarhaddoni filio-meo, qui postea (8) Assur-ebil-mucin-pal nomini ejus (9) nominatus est secundum voluntatem-meam, (10) dedi, thesaurum templi Amuki (11) (et) . . . iriq-erba, *citharistarum* (?) Nebonis.

ANALYSES.

I. [1] *bellat matâti ;* status constructus, feminine plural in genitive (dependent) case : *l* doubled after *e* as in the verbs פ׳ע. *Matu* (=*madtu* for *madâtu*) is of Accadian origin, *ma-da* "country" or "people."

[2] *asibat ;* feminine status constructus, nomen agentis, from אשׁב.

[3] *ner-ebdu ;* literally "yoke-servant," an Accadian compound (*ninit* or *saccanacu*), in which the first character was probably non-phonetic.

[4] *binût* from בנה, abstract feminine singular, status constructus.

[5] *katâ*, dual from *katu*, probably from לקח. *Kat* or *kattakh*, however, signified "hand" in Accadian, as well as *id*, which has lost the initial guttural. Comp. Talmud. קתא "handle" (like יד החרב).

[6] *rabitav*, feminine of *rabu*, with mimmation.

[7] *kitrub*, form *sitcun*, nomen permanentis of Iphteal from קרב.

[8] *takhkhazi*, also written *takhazi*, for *tamkhazi*, nomen permanentis of Tiphel from מחז, Heb. מחץ.

[9] *iccisu*, third person singular Perfect of נכס. Here the Pluperfect sense is almost lost.

[10] *kakkadu*, Hebrew קרקד. Assyrian assimilates the second radical to the first in Palpel, giving us instead Pappel or Papel : so *caccabu* "star."

¹¹ *Num* in Accadian meant "high" (Elamite *khapar*), translated by the Semitic *elamu* from עלה (עֵלוֹ).

¹² *ebusu* or *epusu*, third singular Pluperfect after the relative. Schrader compares عبس ("to be strong").

¹³ *sarrut* or *šarrut*, abstract singular, status constructus, from שׁרר or סרר.

¹⁴ *kat-i* "my hand."

¹⁵ *iz-sa* (Accadian) is explained *pidnu*. Literally the Accadian would be "wood-work."

¹⁶ *sadadu* in Accadian is *bu* or *bu-da* "long." Mr. Smith translates "war-chariot." Compare Arabic *sadāʿ*.

¹⁷ *rudu* from ירד. *Sarruti-ya* is in apposition.

¹⁸ *zicru* form *sicin*.

¹⁹ *pelu* from פעלֿ, passive participle, like *nibu* or *nebu* (of concave verbs) "worked" so "choice."

²⁰ *esciʿ* is of uncertain meaning. It ought to be a quadriliteral אשכה, but is more probably a Babylonian form (*e* for *a*, like Hebrew Niphal Imperative) from שכה.

²¹ *sicitta*, accusative for *sicinta* from שׁכן, literally "that which is made."

²² *ucciʿ* singular aorist of נכה, "strike down," in the sense of "found" (so נכה שׁרשׁ).

²³ *palakh* (and *palukh* above), nomen permanentis in status constructus, from the same root as *pulukhtu* "fear."

²⁴ *baladh*, or in Assyrian generally *paladh*, =פלט. It often happens that a root which in early Assyrian has initial *p*, but in Babylonian (and frequently in later Assyrian also) *b*, answers to a Hebrew radical with פ ; so *bakharu* or *pakharu* is פחר.

II. ¹ *ticun* was apparently the Accadian word, for which Assyrian substituted *biltu*, *bilat*, from יבל.

² *saku* was a Turanian loan-word, *sak* in Accadian being "head," "high." Hence also *sakummatu* "highlands."

³ *Mannu-ci-Arbʿil* "who (is) like Arbela," though *ci·* may be *itti* "with." *Maruduc-akhe-sallim* "Merodach pacifies brothers," *sallim* being third singular Permansive.

⁴ *iddanan*, third singular Present Palel of *nadanu*.

⁵ *iddini*, for *iddinu*, is an instance of the vulgar pronunciation. It shows the same tendency as that which changed -*ūnuv* to -*ūniv*.

⁶ *ribata*, literally "increase," like Kal Present *irabbi'u*. We find besides 2 per cent., 4 per cent., etc. The Accadian is *śu*.

III. ¹ *cissāti*, plural genitive of *cissatu*, *cistu*, masculine *cissu*; Targumic כנש (Hebrew כנס), *n* being assimilated before *s* in Assyrian (see p. 31).

² *dumaki* plural of form *sucan*, generally *dumki* (*dumku*), "good fortune," etc.: also *dumuku*.

³ *abnu zadhu* is explained in a syllabary to be *'abn itstsuri* "bird-stone."

⁴ *baru* "half," was probably so sounded in Assyrian; but it was a loan-word from the Accadians, in whose language *bar* = "another," "second."

⁵ *cibi* is written *dhu*, which is explained to be *cibu*. This has no connexion with the Hebrew *kab*, but denotes "body," or "mass," from כבה, as in *cibe littūti* "heap of tributes," *cibu* "the person" (of a man), *cibe s'iparri* "masses of copper."

⁶ For *sakal* we have the Accadian equivalent *lal* written (as an ideograph).

⁷ *cisatta* for *cisadta*.

⁸ *canurāni*, plural of *canuru*, which may be connected with כנור, form *sacun*. For the case-ending before the genitive, see p. 147.

The Latin translations given above are intended to answer to the Assyrian word for word. I subjoin an English version :—

(I.) To Beltis, queen of the world, dwelling in Bit-Merodach, Assur-bani-pal, king of Assyria, the prince who worships her, the high-priest, the creation of her hands, who, according to her high bidding in the meeting of battle, has cut off the head of Teumman, King of Elam; and Umman-igas, Tammaritu, Pahe, and Umman-aldas, who after Teumman received the kingdom of Elam, by her powerful help I conquered, and in the mighty yoke of my royal chariot I captured; and my conquest of them has become

famous in all lands, for they had no equals. · At that time, I carved the sculptured work of the altar of the temple of Istar with choice carvings. I made it great for the pleasure of Beltis. This altar I dedicated before her. As for me, Assur-bani-pal, the worshipper of thy mighty divinity, a life of long days, goodness of heart and stability are coming upon me. May Bit-Merodach last long under me.

(II.) Talents of the best iron, for Istar of Arbela, which Mannu-ci-Arbela in the presence of Merodach-akhe-sallim, in the month Ab, hands over, shall be lent at three per cent., unless they are given back. The 11th day of the month Sivan, during the eponymy of Bamba, in the presence of Istar-bab-cames, Kua, Surru-ikbi, Dumku-pan-sarri, and Nebo-rub-bal.   ·

(III.) I, Sennacherib, king of multitudes, king of Assyria, have given chains of gold, heaps of ivory, a *cup* of gold, crowns and chains with them, all the riches, of which there are heaps, crystal and another precious stone, and bird's stone : one and a half manehs, two and a half *cibi* according to their weight: to Essar-haddon my son, who was after-wards named Assur-ebil-mucin-pal, according to my wish : the treasure of the temple of Amuk and . . . iriq-erba, the *harpists* of Nebo.

ADDITIONS AND CORRECTIONS.

Page 3, line 19. According to Abul-Faraj (p. 18, ed. Pococke), Shinar "is Sāmarrah," and Sāmīrūs, king of Chaldæa in the time of Serug, invented weights and measures, weaving and dyeing. The change of *m* into *ng* is paralleled by the Accadian *dimir* "god," which is also found under the form *dingir*. Otherwise a nearer explanation would be *sana-'uru* "the four cities." The Cassi, I now find, were not identical with the Sumiri or people "of the dog's language," who lived in Babylonia from immemorial times, but were an Elamite tribe, who conquered Babylonia under Khammurabi in the sixteenth (?) century B.C.

P. 4, l. 5. Later Assyrian itself shows the same interchange of *k* and *g*, as in *gadistu* in the Law-tablet by the side of *kadistu* ("sanctuary").

P. 4. Older Babylonian, especially in the vulgar dialect, presents many peculiar forms. Thus *ś* is preferred to *s*, as in *yuśannu'* "he changed"; *m* becomes *n*, as in *sun-sunu* for *sum-sunu* "their name"; the possessive pronoun *ni* "our" appears as *na*, as in *S'amśu-ilu-na; ina mukhkhi* is regularly used for the preposition *ina eli;* and we even find such corrupt forms as *baśurri* (W.A.I. iii., 43, 16) "flesh" for *biśru*, and the ungrammatical *liseli* and *lisetsbit* (iii. 43, 20, 31) instead of *luseli* and *lusatsbit* or *lusatsbat*.

P. 5, l. 7. *Birid* was not a new word, but goes back to the oldest period of the language. My mistake was caused by a

hasty recollection of Norris's Dict., p. 102. In place of it, read *zilluv* (*iz-mi*) "grace," "favour." In the Persian period, we also find a final -*h* added to the third person plural of the verb, like quiescent ‍ا‍ in Arabic (though this is sometimes met with in the vulgar Assyrian of the contract-tablets). *Ittur* has assumed the general sense of "became," and the plural *itturunu* is an instance of the old final vowel of the third person plural, which was generally weakened to *ĭ*.

P. 8, note 10. Change *kamets* before ה into *pathakh*.

P. 9, note 15. See a paper of mine on "The Origin of Semitic Civilization, chiefly upon Philological Evidence," in the *Transactions* of the Society of Biblical Archæology, vol. i., part 2.

P. 10, note 17. M. Neubauer informs me that in Babylonian Hebrew ר is doubled just as in Assyrian.

After "Assyrian has but one example of the substitution of *n* for the reduplication of a letter," add, "except in verbal forms." Here we not unfrequently meet with instances like *innindu* for *inniddu*, Niphal of נרד; see p. 31.

P. 13, note 23. Dr. Haug ("Old Pahlavi-Pazand Glossary," p. 53) connects the Assyrian adverbial ending with the Aramaic -*dit*, Syriac -(*ó*)*it*, which forms adverbs from substantives, adjectives, and past participles, as well as with the Hebrew אַרְמִית. But phonology alone would exclude this explanation.

P. 14, note 26. It is not quite accurate to say that "all the older kings have Turanian names." This is not the case with Naram-Sin, or Samṣu-iluna, a contemporary of Khammurabi (unless he is to be identified with the latter king)�ﹶ but their names admit of a sufficient explanation (p. 13). See a good paper by Mr. G. Smith on the "Early History of Babylonia," in the *Transactions* of the Society of Biblical Archæology, vol. i., part 1.

P. 15, note 29. We may add the tendency of *a* to become *i* in forms through the medium of *e*, as in *innindu* for *innandu*, and the intermixture of the Perfect-termination with the Augment of Motion, e.g. *yubta'uni*.

P. 15, note 31. Other peculiarities will be the uncertainty of gender, as in the plural *makarut* (" a measure ") by the side of *makarrāt* (for *makárāt*), or *casaptu* instead of *caspu* (" silver ").

P. 17. The same disregard of gender in the verb occurs in the Assyrian translation of a legendary account of the famous Accadian king Sargina (W.A.I. iii., 4, 7), which must be ascribed to the age of Assur-bani-pal. So upon the principle that grammatical forms get shortened, not lengthened, with the wearing of time, הָאֵל must be later than the longer form.

P. 20. Add letters by Rawlinson, Hincks, and others in the *Athenæum*: Aug. 23, 1851 (Rawl.); Sept. 6, 1851, Sept. 20, 1851, Oct. 25, 1851, Dec. 27, 1851, Jan. 3, 1852 (Hincks); Aug. 18, 1860 (Rawl.); March 8, 1862 (Rawl.); May 31, 1862 (Rawl., first announcement of the discovery of the Assyrian Canon); July 19, 1862 (Rawl. on the Canon); July 5, 1862 (Hincks); Sept. 20, 1862 (Ménant, on Kham-murabi's Inscrip.); Jan 24, 1863 (Fox Talbot); Feb. 14, 1863 (Rawl. on Taylor's Discoveries); Aug. 22, 1863 (Rawl., Early Hist., etc.); Oct. 24, 1863 (Hincks); March 18, 1867 (Rawl., Verification of Canon by eclipse); Sept. 7, 1867 (Rawl., Assyrian Calculation of Time); Oct. 18, 1868 (G. Smith, Protochaldæan Chronology); Nov. 7, 1868 (Smith); Nov. 14, 1868 (Sayce, Assyrian Poetry), Nov. 21, 1868 (Sayce), May 29, 1869 (Sayce, the Law-tablet); June 12, 1869 (Smith), June 19, 1869 (Smith), July 17, 1869 (Smith). *Journal* of Royal Asiatic Society, 1851, xiv. part 1 (Rawl. " Analysis of Babylonian Text at Bchistun "); 1854, xvi. 1

(Norris, "Assyrian and Babylonian Weights and Measures");
1855, xv. 2 (Rawl., "Notes on Hist. of Babylonia," "Ortho-
graphy of some Assyrian Names"); 1860, xvii. 2 (Rawl.
"Memoir on the Birs Nimrud"); 1860, xviii. 1 (Fox Talbot,
"Translation of Assyrian Texts," Inscriptions of Birs Nimrud,
Michaux, Bellino; (1861, xix. 2) Of Sennacherib, Nebu-
chadnezzar (at Senkereh), and Nabonidus; (1862, xix. 3) Of
Naksh-i-Rustam; (1863, xx. 3, 4) Of Khammurabi; (1861,
xix. 1) Of Broken Obelisk). *Transactions* of Society of Bib-
lical Archæology, 1872, vol. i. part 1 : Smith, "Early Hist.
of Babylonia" (important); Fox Talbot, "On an Ancient
Eclipse," "On the Religious Belief of the Assyrians." Ménant
on Oppert's Translations of Astrological and Portent Tablets,
and Identification of the Stars, in *Journal Asiatique*, 1871,
xviii. 67 (valuable and acute). Criticism of Smith's Syllabary
and Assur-bani-pal by Oppert in *Journal Asiatique*, Jan.
1872, xix. 68 (already reviewed in the *Academg*, Nov. 15th,
1871). F. Lenormant, "Essai sur un Monument Mathé-
matique Chaldéen, et sur le Système Métrique de Bab.,"
Paris, 1868; "Manual of the Ancient History of the East"
(Engl. Edit.), vol. i., 1869 ; " Essai de Commentaire des
Fragments de Bérose," 1872.

P. 25, note. Owing to ill-health, Mr. Smith was unable
to make his Syllabary so complete as he wished. The fol-
lowing values may be added: 1. *kharra=samu ;* 3. *essu ;* 4.
citamma ; 6. *idin, belu ;* 8b. *dudu ;* 10. *cuda, se, gudibir=
Maruduc ;* 12. *gita ;* 15. *nurma, cuśśu, khalacu ;* 30b. *duddhu ;*
30k. *śiśi, śidi ;* 43. *laluruv ;* 44. *turi ;* 45. *gu, ni, rāru, illu ;*
48. *śā ;* 50. *humis ;* 53. *essit ;* 70. *dara ;* 73. *tiskhu=ramcuti ;*
76. *la, nindanu;* 88. *masadu;* 92. *malu'u;* 93. *mas ;* 99. *rabdu;*
102. *ilba ;* 108. *ginū, gāgunū=padanu, khaśaśu ;* 112. *dhūcus,
nita, mutstsa ;* 118. *sana ;* 135. *dū ;* 136. *khibiz, ginna=*

muniru ; 143. *ul, nakbu ;* 146. *summa ;* 147. *siriz ;* 152. *calu, nazazu;* 155. *urugal, mitu;* 158o. *alal=alalluv;* 159. *khut, cun= napiaru ;* 159c. *luga ;* 164. *śun, lukh ;* 166. *alittu, natsabu sa etsi ;* 169. *gut, khar, dapara ;* 179. *pil, napakhu ;* 180. *gi ;* 182. *guk ;* 182b. *garru, mandinu ;* 187. *nadalu, etsibu, sanin, rada, takh ;* 188. *iztāti ;* 191. *garru ;* 192. *ugudili ;* 200. *galam, galum ;* 201. *sem, sāmu ;* 203. *khur, zarakhu, calu, atsu sa etsi u kani ;* 208. *gā ;* 209. *tsalam ;* 212. *lugur, cū ;* 215. *zak, tami ;* 217. *udessu ;* 224. *a=dilte ;* 226. *idgal ;* 229. *biseba, alala, alam=tsalamu ;* 232. *balag=balangu ;* 237. *pakh, rar, lib ;* 238. *sana, niga=marū ;* 239. *śus, naśakhu, sepuz= napakhu, Damcina ;* 240. *ezu ;* 241. *mus ;* 242. *tsir ;* 246. *suplu, mikhiltu ;* 247. *igū ;* 253. *nāku ;* 254b. *śagalum ;* 255. *cizlukh =mascanu ;* 255h. *canlab ;* 262. *arik, nē ;* 266. *enuv, garru, samu ;* 270. *cacabu ;* 272. *dim, idinnu ;* 273. *sita ;* 280. *ugun =akhzētu ;* 282. *puśur=samsu ;* 293. *śarru, napiaru sa tammi ;* 303. *khā, id, sar, cissat same ;* 305. *kham ;* 307. *ur ;* 307c. *urus=tirtuv ;* 309. *lammubi ;* 311. *śukh ;* 318. *ga, nāku ;* 318f. *ara ;* 318h. *ir=calū naccal ;* 324. *garru, sēmu ;* 338d. *puzu ;* 339. *girim, gil, mik ;* 348. *gur ;* 352. *illammi ;* 354. *ligittu, daruv=izkhu, sa issik icribi ;* 355. *garru, acalu ;* 355b. *khartsu;* 356. *amaru ;* 359. *halacu ;* 360. *rak ;* 362. *ni ;* 367. *śikhapcu ;* 371. *khīsu ;* 373. *cistu ;* 377. *isi, śulsa ;* 368. *sutul.* Several characters have been omitted altogether, whose powers are for the most part known. It would have added to the value of the Syllabary had the meanings been attached wherever possible.

P. 26, 1. 5. Add :—The division of words sometimes takes place without being marked by the writing, when the second word begins with a vowel; especially if the first word is in the *status constructus*, or is a shortened preposition, as in *adussi* for *ad'ussi* " to the foundations"; *matturru* for *mat'urru*

"land of light" or "morning" (W.A.I., ii. 39, 13); *igidibbu* for *igid-ibbu* "it joins phrases" (according to Norris). Assyrian very seldom divides a word at the end of a line; now and then, however, we find a vocable not ending with the line (*e.g.* Layard 70, 3, 13).

P. 29. A good example at once of the loss of *kh* in Assyrian, and of the confusion between *m* and *v*, is *lamu* "a tablet," the Hebrew לוּחַ.

P. 29. This derivation of *katu* is due to Dr. Hincks. Many reasons, however, would rather point to an Accadian origin. Talmudic Hebrew uses קתא in the sense of "handle" (e.g. קתא החרבא, like יד החרב). From *katu* comes the feminine adjective *katitu*, as in *daltu la katitu* "a door without handles," by which *arcabinnu* is explained.

P. 30. *Kinnatu* "a female slave" is probably from קנה "to buy," like Talmudic כירי "slave" from כיר "to sell," according to conjecture. (Neubauer, "La Géographie du Talmud," p. 306.)

P. 31. Other similarities between Assyrian and Babylonian (Talmudic) Hebrew (as might be expected) may be pointed out. Thus like *nadinu* instead of נתן we have נדוניא "gift," quoted by Harkavy, who also notices that in the Targum (Ex. v. 7, 12, etc.) גבב = "to unite," like the Assyrian *gabbu* "all" (so in the Talmud המגבב "he who amasses"). The Assyrian *lamaśśu*, again, derived from the Accadian *lamma* or *lamaśi* "colossus," seems to reappear in Rabbinic למס, and the Rabbinic ושט "gullet" finds its analogue in the Assyrian *assadhu* (W.A.I., ii. 17, 20).

P. 34. The sharper pronunciation of *s* may have been due to Turanian influence. The earliest specimens of Babylonian Semitic write *S'amśu*.

P. 34, l. 4. Read כרסא.

P. 47, l. 19. Read *annute—annute*.

P. 50, l. 22. For S read I.

P. 50. Add :—The conjugation Niphael, which stands by the side of Shaphael, is an evidence of the artificial regularity introduced by the Assyrians into their verbal system. Niphael is mostly found in verbs whose last radical is a vowel (p. 94). But Dr. Oppert quotes also *nagarrur* and *nasallul* in the strong verb (see p. 78).

P. 51. A good instance of the aorist of the Shaphel Passive occurs in W.A.I., iii., 38, 56, where we have *yussupulu* for *yusasupulu* " (which) had been caused to be overthrown."

P. 53. The Future often takes the form *icattamu* or *icatamu* "he shall cover," from the analogy of the derived conjugations. Vulgar Babylonian actually presents us with the form *inaśśukhu* "he shall take away" (W.A.I., iii. 41, 11).

P. 61. l. 22. After "never the initial syllable," add : "when this expressed the force of the root."

P. 63, l. 28. For F read A.

P. 67, l. 18. *Atani* is not " wild-ass," but a river-bird, also called *cumu'u* like the *appunnu* (W.A.I., ii. 37, 55). The Accadian name seems to mean " blue rump." *Appunnu* may be compared with the Biblical אנפה, which the Targum of Jerusalem renders אבניתא.

P. 69. *Yucin, yuca'an* might be Aphel ; but as the other Assyrian forms are Pael, *yucin* must be for *yuccin*, the ordinary Pael form. The late Dr. Hincks denied the existence of an Aphel in Assyrian altogether ; but without good reason.

P. 80, l. 5. For Iphtaneal read Iphtanaal.

P. 94. Similarly the Hebrew ענה appears as ענו on the Moabite Stone.

P. 98. The forms *-annini, -nini,* for the First Personal

Pronoun Suffix are given upon the authority of Dr. Oppert. I do not recollect having found them in the inscriptions.

P. 108. Add the instance of a Shaphel Passive from verbs פ׳א, which we find in *susuptu* "a royal throne," given as a synonyme of *napalsukhtu*.

P. 109. Quadriliterals admit of an inserted dental after the second radical: thus *tsimtaru* or *tsivtaru* "a spirit of the neck" (צואר).

P. 110. Since תגמול is a Piel Infinitive, it would be more nearly represented by the Arabic forms *taktâl, taktîl*, etc. We may compare the Æthiopic *ta'agâlî* "robber," *tasâlâkî* "abuser," and the Hebrew תושׁב or Aramaic תלמיד, from which Ewald would deduce the original personal use of the formation with ת.

P. 111. A few strange forms terminating in *ā* from weak roots are found. Thus we have *mali'ā* "fullness" as nominative in the syllabaries, and *imri'ā* "family" (but sometimes "my family") in the contract-inscriptions. The form is generally used in the *status constructus*. It may be Aramaising, or it may be due to the influence of Accadian, where the participle was distinguished by final *ā*. *Daru* "name" —a word originally borrowed from the Accadian—appears as *dāri'ā* in the Accadian (W.A.I., ii., 33, 71).

P. 112. I have forgotten to speak of Compounds in Assyrian. These are rare, as in the other Semitic languages; but we meet with *bin-binu* and *lib-libbu* "grandson." These examples will show that the first part of the Compound took the form of the Construct; the second part, however, had the nominative, not the genitive, ending. See pp. 148, 165.

P. 113. Another instructive instance is the root ירק "green," "yellow" in W.A.I. ii., 26, 50, where we have *arku, rakraku, 'urriku, urik*, and *urcitu*, besides the Accadian *ara*.

P. 140. M. Neubauer has pointed out to me that a second Nisan and a second Elul are mentioned in the Talmud.

P. 140. Another measure of capacity was the *makaru*, with a double plural *makarut* (masculine) and *makarrat* (feminine). We find 100 *makarrat* of barley in a contract-tablet. Comp. Hebrew קְעָרָה or קוּר "to dig out," like כֹּר and קֹב.

The Accadian name of the *lagitu* or *ligittu* was *ib*.

According to Dr. Oppert, the *ka* was a determinative prefix of measure.

According to M. Lenormant, the *kakkar* or "Equator" (but see W.A.I. iii., 51, 18) was divided into 12 *kasbi*, each containing 60 degrees (*daragi* or *dargatu*), again subdivided into 60 *sussi* or "minutes."

P. 143. I would now connect *lamu* with Hebrew לוּחַ not with לוֹהַ; see above.

P. 144. Add *akhennā* "on the other side," *akhamis* "with one another."

P. 157. Traces of a feminine in the Third Person of the Precative are, however, found in the Vulgar Babylonian: e.g. *liparrici* "may she (Papśucul) break" (W.A.I. iii., 43, 27), where the vowel of the first syllable is to be noticed (see p. 179).

P. 160. In a paper read before the Society of Biblical Archæology, April 2nd, 1872, Mr. Cull sought to connect *basu, kabu,* and *isu,* respectively with the Hebrew חֹוֶה, הֹוֶה, and יֵשׁ.

P. 166. The myth of the Babylonian Sargon contains a good example of the use of *ana* to express the object, where we read *Acci nis-abal ana maruti yurabba-nni Acci nis-abal ana pakid-ciri iscun-anni,* "Acci the *abal* reared me to youth; Acci the *abal* made me the woods-superintendent."

Since the foregoing was sent to the press, I have been permitted, through the great kindness of Dr. Haigh, to see the MS. notes made by the late Dr. Hincks in a copy of Dr. Oppert's Grammar (1st edit.).   Dr. Hincks draws attention to the fact that *kh* in Assyrian was sometimes so strong as to approach *c* in sound, *iptakhid* being sometimes written *iptacid*. We may compare the Hebrew שׁחד by the side of the Arabic شكد, or the interchange of *kh* and *hh* with *c* in Æthiopic, as in *wacaya* and *wakhaya* "to shine," *zĕcyr* and *zĕkhyr* "memorial."   Dr. Hincks gives the following list of Assyrian Ordinal Numbers: *makhru* "first," *sannu* (fem. *sanutu*) "second" (*nn* for *nw* or *ny*), *salsu* (fem. *salistu* "third," *rib'u* (fem. *rib'atu*) "fourth," *khansu* (fem. *khamistu*) "fifth," *sib'u* (fem. *sib'utu*) "seventh," and by analogy *sidu, siditu* "sixth," *simanu, simattu* "eighth," *esru, esritu* "tenth."   He makes *sunnu, rub'u*, etc., collectives, "a pair," etc.; and this is certainly one of the uses of *sunnu*, pl. *sunne*.   He adds another conjugation, "of which the 1st Aorist is *'upekil*," e.g. *usepic* from שׁפך, *unecis* from נכם.   Considering, however, the interchange of *e* with *i* on the one hand, and *a* on the other, this seems a needless refinement (see p. 79).   The following list of concave verbs in which *t* in Iphteal precedes the root is also given : דוך "to kill," בוא "to go," איב "to be an enemy," דין "to judge," כון "to be sure," מות "to die," תור "to be," and טוב "to be good."

<div align="center">THE END.</div>

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